CENTRAL INTELLIGENCE AGENCY REPORT NO. SO DB-14668 INFORMATION REPORT DATE DISTR. 15 March 1949 Rumania COUNTRY NO. OF PAGES 1 25X1 **SUBJECT** Notes on Industries in Rumania NO. OF ENCLS: 1 (LISTED BELOW) SUPPLEMENT TO September 1948 DATE OF INFO 25X1 REPORT NO. XXXXXXXXXXXX THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS Attached herewith for your information and retention is a photostatic copy of Rumanian industries as of September 1948. 25X1 25X1 EVALUATE 25X1 Approved For Release 2006/04/2

Ap SEC THE EAR 200 (704(2)1 NCIA-REP83-00415R002400100001-2 U.S. OFFICIALS ONLY

INDEX

		Page
I.	FOREWORD	1
II.	INTRODUCTION	2
III.	NATIONALIZATION OF INDUSTRY	5
IV.	DIVISION OF INDUSTRIES INTO 33 CENTRES	7
V•	COAL	8
ÿΙ.	MINERALS	13
	(a) GOID & SILVER (b) MANGANESE (c) COPPER (d) LEAD & ZINC (e) DAUXITE (f) CHROME (g) MOLYDDENUM (h) SALT (i) CHALK	13 & 14 13 13 & 15 13 & 15 14 & 15 16
VII.	PETROLEUM INDUSTRY	17
	(1) Principal Oil Producing Companies (2) Refineries (3) Pipe Lines and Pumping Stations (a) Pipelines (b) Pumping Stations (c) Re-pumping Stations (d) Bulk Receiving Stations	17 18 19 19 21 22 22
III.	DETRANE GAS	23
IX.	CARBON BLACK PRODUCTION	27
X.	STREL WORKS & ENGINEERING CONCERNS	28
	(1) "ACIERIES & DOMAINES DE RESITA" (2) MALAXA GROUP N.MALAXA S.A.R.FADRICA DE	28 34
	LOCOMOTIVE SI MASINI N.MALAKA UZINELE DE TUBURI SI	34
	OTELARII S.A.R. N.MALAXA S.A.R.FADRICA DIN	34
	TOMANUL VECHIU	34
	A. HALTA TITAN WORKS B. MALAXA SHELL AND FUZE FACTORY AND FILLING PLANT AT	34
	TOHANUL VECHIU (3) "TITAN, NADRAG, CALAN" S.A.R.	40 42
	A. CALAN PLANT	42
	B. FERDINAND PLANT C. NADRAG PLANT	42 43
	D. TITAN JORKS, GALATZ	43 44
	(4) "ASTRA" Prima Fabrica Romana de Vagoane si Motoare S.A.	45
	(5) INDUSTRĪA PETALURGICA AL STATULUI (1.M.S.)	47

proved For Release 2003/00/27:10/14/25980/004/75R002400100001-2

	INDEX(contd)	Page No.
	(6) INTREPRIMDERILE METALURGICE DUNARENE S.A.R.	51
	(7) INDUSTRIA FIERULUI S.A.R.	53
•	(8) NOUA SOCIETATE A ATELIERELOR "VULCAN"	54
	(9) CONCORDIA S.A.R.	55
	(10) UZINELE METALURGICA "LEMAITRE"	57
	(11) E. WOLFF S.A.R.	58
	(12) FABRICA DE MASINI DUMITRU VOINEA	59
	(13) INTREPRINDERILE EMIL COSTINESCU S.A. Sinaia	60
	(14) Various other engineering firms	61
XI.	SHIPDUILDING	63
	(a) "SANTIERELE NAVALE GALAT" (b) "SANTIERUL NAVAL NEPTUN" (c) "VIITORUL" (d) "ING.E.CERCHEZ" (e) "I.R.N" (f) "DANUBIUL" (g) "METINAV" (h) "ROMANIA" (i) "DINAMICA" (j) "S.A.R.T.A.T." (k) The "FRANCO-ROMANA"Shipyard	63 63 63 63 63 63 63 63 63
XII.	ELECTRICAL INDUSTRY	00
	(1) UZINELE de FIER SI DOMENIILE DIN RESITA (2) BRITANIA (3) TUDOR S.A.R. (4) STANDARD	64 · 64 64 64
XIII.	NON-FERROUS METAL INDUSTRIES	65
	(a) METROM PRIMA FABRICA METALURGICA ROMANA	•
	(b) LAROMET ROLLING AND DRAWING MILLS.	65
	(c) FAROLA Refining, Rolling, and Drawing	66
	(d) INDUSTRIA SARMEI (wire Industry) CAMPIA	67 .
	(e) CONCORDIA, Ploesti (f) SOLEX, Buca rest (g) INDUSTRIA PLUMBULUI, Buca rest	68 68 68 68
.VIX	CEMENT INDUSTRY	69
	(1) TURDA (Transylvania) (2) DAMBOVITA, Fieni (3) BRASOV (4) CER NAVODA (5) BRAILA (6) "TITAN" Bucharest (7) COMARNIC (8) AZUGA	69 69 70 70 70 71
· <u>·</u>	Approved For Reis CONTENT IA-RDP83-00415R0024001000	01-2 [±] . Y

Appropriate 20(6/00)2 N CA-ROFO: -10415R002400100001-2

INDEX (conta)		
INDEX (contd)	Page	No.
XV. GLASS INDUSTRY	73	
(1) PRIMA FABRICA DE STICIA CU GAZ META		
(VITROMETAN) MEDIAS	N 73	
(2) FABRICA DE STICLA ARDELEANA (3) INDUSTRIA ROMANA DE GEAMURI, Scaeni (4) TURDA S.A. Turda	73	
2.32.00	73	
XVI. TEXTILE INDUSTRY	7 5	
(1) COTTON SPINNING MILLS	7 5	
(3) SEWING SUPERATE MILLS	76	
(4) WOOL SPINNING AND WEAVING MILLS	78 78	
(4) WOOL SPINNING AND WEAVING MILLS (5) VIGOGNE (VICULA WOOL) SPINNERS (6) ARTIFICIAL FIBRES (7) SILK MENTINE	80	
(7) SILK WEAVING.	80 81	
XVII. PULP AND PAPER INDUSTRIES	82	
(1) CELLULOSE PULP (1) FABRICA DE CELULOZA ZARNESTI S. (11) FABRICA DE CELULOZA din PIATRA	82 A.82	
NEAMT (iii) CELLULOSE SECTION OF LETEA PAPER MILL, BACAU	82	
	83	
(2) PAPER MANUPACTUREAS	83	
XVIII.TIMBER INDUSTRY	85	
(a) ARDELEAMA S.A. INDUSTRIA LEMNULUI (b) CARPATIMA, Slatina	85	
	85 85	
(d) INDUSTRIA LEMULUI, Eicsad	85	
(I) MUNDUS SI BORLOWA terming	85 85	
(g) RESITA S.A.R.	85	
(g) RESITA S.A.R. (h) ROMANIA FORESTIERA (i) S.A.FORESTIERA DIN BELTIUC	85 85	
XIX. CHEMICAL LADUSTRY	., .	
(1) HEAVY CHEMICALS AND FERTILISERS	S6	
(2) WOOD DISTILLATION	87	
(4) EXPLOSIVES	8 7 88	
(2) WOOD DISTILLATION (2) WOOD DISTILLATION (3) PAINTS AND DYES (4) EXPLOSIVES (5) SOAP AND CANDLES (6) PHARMACEUTICAL PRODUCTS	88 89	
(O) FIRTHROSUTIOND PRODUCTS	89	
XX. LEATHER INJUSTRY	90	
(a) GRIGORE ALEMAIDRESOU, Puca rest (b) MARRES S.A. Medias (c) MOCIORNITA S.A.R. (d) PRIMA PARRICA DE INCALTAMETE	90	
O HARRES S.A. Redias	90 30	
(d) PRIMA PAURICA DE INCALTAMINTE	90	
(a) max a Gin ManaT	90 90	
	91	
(a) BAHLOC S.A.R.	១1	
(b) FABRICA DE CAUCIUC DRASOV S.A.	91	
Approved For Release 200001 Part Place 240010001	91 91	
(a) SAMLOG S.A.R. (b) FABRICA DE CAUCIUC URASOV S.A. (c) CAUCIUCUL QUADRAT S.A. (d) UZINETT CARROPS 3.00415R002400100001-2	• • •	
WENTER WO. UPPICIALS CITY		

April ec 5 R Leave 2006/04/21 : CIA-RDP83-00415R002400100001-2

	I N D E X (contd)	Page No.
.IIXX	MATCHES	92
	"CHIBRITURILE" SOC.ROM.	92
XXIII.	SUGAR INDUSTRY	93
XXIV.	EL DOTR IC ITY	94
	Map	95
XXV.	NEW NAMES GIVEN TO FACTORIES AFTER NATIONALISATION	96

SECRET U.S. OFFICIALS ONLY

-2-

II. IMTRODUCTION

25X1

- 1. Greater Roumania before the war was primarily an agricultural country. With its fortile soil, reserves of mineral resources and considerable mater-power, Roumania could have been one of the richest countries in Europe. However, only a small part of her resources was exploited.
- Even after the acquisition of Transylvania Bukovina ami Bessarabia, about three-fifths of the area was arable land and four-fifths of the population were employed in a miculture, forestry and fishing. Industry, employing only one-twentieth of the population, was responsible for half of the production expressed in value. Approximately two-thirds of all income from exports was derived from industrial products chiefly oil, of which Roumania was the foremost European exporter.
- At the end of 1938, there were 3,767 industrial establishments in Roumania. These had an aggregate capital of Lei 50,100 million, and employed about 289,000 workers. Production in 1938 was valued at Lei 69,200 million. Production, capital and numbers employed in the various industries were as follows:-

Industrial Statistics as at December 31st, 1938

	<u> </u>				
Indus try		Capital Million Loi	No.en- ployed	Raw materials consumed Million Lei	Value of output Hillion Lei
Chemicals Food Textiles Motals Timber Leather Papor Building Eloctricity Supply Glass Ceramics	397 974 640 366 713 158 157 258 31 39 34	12,325 10,773 8,230 8,466 2,274 1,025 3,577 2,093 200 561 143	28,298 38,376 74,077 51,321 43,326 13,366 15,222 15,104 2,684 5,691 1,651	7,619 8,416 9,086 5,531 1,960 2,340 1,249 252 329 133 27	14,155 15,577 14,692 11,363 3,584 3,438 3,089 1,860 675 527 149
TOTAL	3,767	50,067	289,117	36,944	69,209

4. During the war Roumnia lost 800,000 able-bodied men out of a population of 15 to 16 million. The oil industry suffered comparatively little permanent damage.

SECRET US. OFFICIALS ONLY

-3-

- 5. After the war, Transylvania, containing rich mineral resources, was returned to Rouminia. It had been ceded to Hungary in 1941 by the so-called "Vienna Diktat". Bessarabia and the Northern part of Bukovina were, however, lost to the U.S.S.R. and Russia imposed heavy reparation payments upon Roumania. Large quantities of grain, livestock and industrial equipment were removed such as approximately 50,000 tons of collided equipment, 87 per cent of which belonged to British and allied companies, two-thirds of the rolling stock and a most the entire werehant fleet.
- as the major factor in the economic life of Roumania and has assimilated every major branch of Roumania's economy by means of Soviet-Roumanian companies in which Russia holds 50 per cent of the shrees. The machinery of State is used to give every advantage to the Sovrons and to squeeze out the companies not concerned in them.
- 7. Sovrous constituted to date, control Roumanian shipping, air traffic, wood and timber production, banking, insurance and originally all the oil production not belonging to Allied interests.
- 8. In one of the Protocols attached to the Treaty of Friendship, Collaboration and Mutual Assistance between Russia and Roumania signed in Moscow on February 4th 1148, it was hald down that in case Roumania were threatened by invasion or air attack from the west, all Industries considered of importance to the war effort would be transferred to the U.S.S.R. in accordance with a plan to be drawn up by a mixed commission.
- 9. According to a further protocol attached to the same Treaty a mixed Roumnian Soviet Company is to be formed for the exploitation of the molybdenum mimes in the BIHOR region of the BANAT. Similar Companies are to be formed for the exploitation and industriclisation of all mineral deposits in Roumania. The Roumanian "apport" will be constituted by the provision of the mineral deposits and necessary labour, whereas the Russians will supply the equipment and specialist technicians. In exchange for this the Russians will obtain 80% of the total production in either raw am terials or finished products. The agreement is binding for 20 years. A further article stipulates that similar Companies are to be formed for the exploitation of coal, oil and motal deposits. Russia's part in those cases will vary between 20% and 70% of the profit, payable These examples are quoted to illustrate how completely Roumnian Industrial Development has been made subservient to Soviet requirements.
- 10. Industrial production in 1966 is given in the following table:-

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

SECRET

U.S. OFFICIALS ONLY

-4-

INDUSTRIAL STATISTICS 1946

<u> Industry</u>	No. of Concurns	26	Capital Million Lui	2	Value of Output Million	E 1/2
Chemicals Food Textiles Metals Timber Building Electricity Supply	44 12 35 17 16 33 3	04.6 6.7 10.6 9.5 8.9 18.4	556,000 2,985,000 1,485,000 1,335,000 2,015,000	23.0 11.9 10.7 16.1	Lei 575.957 121,700 660,400 325,400 283,200	4.3 23.4 11.6 10.1 19.8
Class & Coramics	3	1.7	90,000	0.7		1.0
Graphic Arts	- -	1.7	106,000	0.8	27,500 27,500	1.0
Mining Transport Others	3 0 4	1.7 3.4 2.2		0.9 2.2 2.1		1.3 3.1 2.5
TOTAL	179	100.0	12,498,400	100.0	2,815,470	100.0

A five year plan for the expansion and modernisation of the Metallurgical Industries (comprising RESITA, TITAL HADRA and the various pro-var State-owned Metallurgical Works, was completed by a Committee of Roumanian experts in December, 1947 and submitted to the then Minister of Industry and Commerce. (Full details are available, if required). In July 1948 a credit of Metallurgical & Chemical Industries (how this sum is sub-wivided between the two industries is as yet not known). Being implemented.

No Continue to the State of the

III.

NATIONALISATION OF INDUSTRY

The Official Gazette (MONITORUL OFICIAL)
No.133 bis of 12th June 1948 publishes the Mationalisation
law according to which all subsoil - not yet in possession
of the State at the date of the foundation of the
Roumanian People's Republic - becomes the property of the
Republic.

707 private and limited liability companies, apart from 32 Petroleum companies are mationalised, but all Soviet Roumanian joint companies (SOVROMS) are explicitly excluded.

The nationalised concerns are grouped as follows:-

- 20 Metallurgical enterprises
- 115 Factories producing intal products, precision instruments, electrical equipment, garages and motor ropair shops, shippards.
- 25 Coal mines and stone quarries
- 56 firms producing building material
- 9 Glass factories
- 20 building concerns
- 76 saw mills and wood working onterprises
- 9 paper mills and similar concorns
- 64 Textile mills and knitted goods factories (cotton)
- 34 Textile mills and knitted goods factories (wool)
- 36 Textile mills and knitted goods factories (silk)
- 17 Textile mills (hemp and jute)
- 12 dyeing concerns
- 12 tanneries and furriers
- 1d basic chemical concurns, including carbon black factory
- 53 manufacturing chemists, scent and cosmetic factories and pharmacoutical laboratories
- 18 broweries and alcohol distilleries
- 9 factories manufacturing glucose, doxtrine, starch and compressed yeast.
- 35 cdible oil mills

600的第二十二 M.B. OFFICIALS ONLS

-6-

- 8 fruit drying establishments
- 10 concorns belonging to private railway companies
- 5 railway oil tank waggon hire firms
- 4 shipping companios
- 15 insurance companies.

Apart from the above, the following 31 Potroloum companies suffered the same fate. In the nine first mand, British, American, French or Belgian capital was interested:-

- l. Astra Romana (a Shell subsidiary)
- Romano-Americana (Subsidiary of the Standard Oil of Now Jorsey)
- 3. Concordia (Fronch and Bolgian)
- 4.
- Steama Romana (British, French and Romanian) Unirea (Bubsidiary of Phoenix Oil & Transport Co. 5. Ltd. of London)
- 6. Columbia (Fronch capital)
- 7. Vacuum Oil Company S.A. din Romania Romano-Polgiana (Bolgian capital)
- 8.
- 9. Dacia Romana Petroleum Symbicate (Pritish capital)
- 10. Creditul Minier S.n.R.
- 11. Prahova 3.4.R.
- 12. Industria Romana de Petrol (I.R.D.P.)
- 13. Foraj Lomoino, Plousti
- 14. Moldonaphta S.A.R.
- 15. Sospiro
- 16. Neopetrol Soc. .. non. Miniera Ro. hna
- 17. Potrol Block 3. ... R.
- 18. EPS (?)
- 19. Astranina S....R.
- 20. Dozbonzinarca S....R.
- 21. Distributia S. K.
- 22. Aragaz 3.4.
- 23. Hafta-Romana
- Rodoventa 24.
- Sond run 25.
- 26. Starnaphta
- 27. Soc. Doicesti
- 28. Soc Xenia
- 29. Soc. Noris
- 30. Soc. Fotrolina
- 31. Sch lumbor gor

The Mational Methane Gas Company was also nationalised.

Compensation is to be paid in Bonds which are to be redoemed out of the future profits of the matiemalised omterprises. The amounts du to former owners are to be established by Commissions operating in conjunction with the Courts. No appeal against these decisions is permissible. No compensation is to be paid to owners who have left the country. Whether, and how, componsation will be paid to foreign owners has not yet been established.

. . . Werk of the Winds

SECRET

-7-

IV. Division of Industries into 33 Contros

In July 1048 Roulemin's nationalised Industry was re-organised and sub-divided into the following 33 "Industrial Contros":-

1.	Thc	Industrial	Contro	of :	Processing Metallurgy
2.	Tho				strial Contro
3.	Tlio				the Iron & Stool Industry
4.	ıi	if	r)	H	Essential Chomical Industries
5.	ıř	ii	11	11	Chomical Frocessing
6.	**	il	11	17	Plastic "
7.	11	it	i t	11	Sugar
8.	11	11	11	it	Vojotable Oils
9.	17	11	ıi -	13	Cannod Food
10.	11	ii	il	H	Mills and Macaroni
11.	ıf	11	i1	i)	Alcohol and Formented
					+roducts
12.	if	ıİ	fi	it	Milk and by-products
13.	11	it	i t	£†	Timbor
14.	11	it	ıl	il	Furniture and Manufactured
					Wood products
15.	îf	il	11	if	Printing and Engraving
16.	it	tí	11	11	Paper
17.	il	It.	16	íŧ	Mool
18.	it	11	11	iI	Cotton
19.	17	11	11	17	Silk
20.	if	35	11	if	Hemp & Flax
21.	11	il	ı i	33	Leather
22.	ı i	11	ıi	ci	class and fottery
23.	ıi.	ä	11	៖ទ	Mosiory and readymade
					Clothing
24.	if	if	íŧ	17	Coramics and Building interial
25.	£1	11	11	Ħ	Power and omray
26	ri	f i	11	11	Coal
27.	íŧ	ŧ1	fi	i#	Mothano Gas
28.	î!	ii	11	ii	Silver, Cold and Hon-
					Forrous metals
29.	it	ri .	if	íI	quarries .
30.	il	il	it	ii	MUNTERIA (Wallachia)) For oil
31.	(1	11	ιί	ſŧ	MOLDOVA) exploit-
-					ation
70	A				7 Carabara (C + P C)

32. Centre for Roads and Special Constructions (C.L.R.S.)
33. "of Undertakings for Industrial and Civilian
Gonstruction Work (C.I.C.)

Each "Contro" has the authority to plan production, acquire and distribute raw unterial to the member works. It is empowered to centralise the buying of semi-finished and finished goods, control production, decide on future investments, carry out standardisation, finance the works, fix prices and control sales in the domestic market and carry out exports. Briefly they are to lead, develop and control the activity of all State undertakings.

The "Sentres" are to take over the premises and personnel of the industrial Boards.



Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

SECRET

SONTROL

-8-

V. CO.L

Reserves

Known and probable reserves of all types of coal found in Roumnia are estimated as between 2.5 and 3 Milliard tens.

Production

In 1943 production reached 3,361,000 tons.

Detailed figures are available only up to 1940 when production did not exceed 2,640,000 tons.

From the following table, the relative importance of the 30 known Coal producers can be gauged. The figures are those for 1936:-

Hame of Company	Location District	Surface of Mining Concession In hectares	Production in tons
PETROSANI	Hunodoara	6,198	1,011,730
if	Bacau	120	34,731
i i	Dambovita	425	
a	Dambovita	32 7	3,743
UZINELE DE FIER SI DOM RESITA	. Caras	946	
લ મ પ્રમ પ્ર	Caras	609	207,310
CREDITUL CARBONIPER	Bacau)	- 000	000
% tt	Ba'cau)	3,989	898
n . u	Caras	376	9,794
MINELE SORECANI	Cluj	1,583	90,805
LONEL.	Munedoar	2,208	90,101
LICNITUL	Musicol	1,221	72,447
COUTGORD IA	Brasov	397	57,197
MI CA	Hunodoare	194	36,180
MINELE DE CARBUNI SURDUC	Salaj	688	29,429
K.GEORGESCU & M.BENDIC	Dambovite	201	27,233
VALEA AGRISULUI	Salaj	562	26,566



CONTROL US OFFICIALS ONLY --9**-**-

COAL (contd)

Collect Cocioció		*	
Name of Company	Location District	Surface of Mining Concession in hectares	Production in tons
Carradnishis	muscol	273	20,987
BATAIA	∴uscol	141	20,144
INDUSTRIILE MIN.DIN BANAT	Caras	829	14,560
MINA SOTANCA	Dambovita	340	12,655
L.ZARRA & M.BENDIC	Dambovita	340	9,406
SALATRUC	Hunedoara	234	8,433
COMBUSTIBILUL	Mus col	125	4,747
WINA SCHILL	Gorj	600	3,707
DRAG.H.	Mus co l	286	2,520
DEJMA-TATARUS	Bihor	549	_
C.IOMESCU	Prahova	7	9େଥ
G.M.GORBESCU	Dambovita	200	685
MINIURA	Ruznu	125	506
DOTENI	us col	579	4 08
PRIMA SOC.MIN DIN CHIURGHIU	.urcs	58	211
DR. GEZA SZ.LAY	Muros	-	145
C.ALDEA	Prah ova	5	80
MIH.L. CILE-PR.TILA	Prahova	7	61
GAVIL GAMPEAN	Cluj	108	58
1 TOT	Ĺ	24,829	1,964,394

Coke Froduction

The quantities of coke produced in gas works (at Bucarest, Galatz, Brasov and Tomisoara) and by the Resita Steel Company (the only producer of metallurgical coke) are given in the following table:-

COAL (contd)	
Yoar	Product
1931	Production in tons
1932	38,000
1933	23,780
	27,715
1934	52,168
1935	66,462
1936	
1937	63,214
1938	78,214
	80 , 030

at LUPENI. After lengthy experiments it was established that Lupeni coal is cokeable, if suitably mixed with other Germany in 1944, but it is doubtful whether the scheme can now be completed.

Briquette Production

Mame of Compa	iny 1935	<u>1936</u>	1937	3070
PETROSANI	108,515			<u>1938</u> 87,874
CREDIT CARBOTTFER RESITA	40,781	48,230	51,857	50,160
COMCORDIA	47,326	37,371	43,866	53,786
LOITEA	10,185 14,201	19,095	23,090	22,624
TOTL			18,768	22,712
1017.11	230,008 2	221,461	262,330	245,156

Categories of coal consumers of the PETROSANI company in 1938, which is typical for the whole country:-

State Railways	74,68%
Gas & Electrical Power Stations	4.18%
Various Industries	13.45%
Brick Yards	3.65%
Domestic consumption	3.03%
Furnaces export	0.99%
-zrDot. 0	0.02%

S. OFFICIALS 2014 17

-11-

COLL (contd)

The following table shows normal and maximum gross production figures of the important coal companies and the number of miners employed.

Name of Company	oquipm availa	ty with	Maximum capa city oquipmen available 1945	with t
	Tons	Number of miners	Tons	Number of Miners
JIU WALLEY region	6,640	7,657	7,460	7,800
PETROS.INI	6,000	6,800	6,700	6,900
LONEA	600	770	700	770
SALATRUC	40	87	60	130
BAMAT Region	825	1,341	1,035	1,641
RESITA	790	1,130	1,000	1,430
CREDITUL CARBONIFER	35	211	35	211
BRASOV Rogion	220	407	340	630
CONCORDIA	220	407	340	630
TROTUS VALLEY Rogion	<u>850</u>	1,737	970	1,927
CREDIT CARBONIFER	700	1,437	800	1,587
PLTROSANI	150	300	170	340
MUNTEN IA Rogion	980	1,123	1,250	1,438
LIGNITUL	540	593	540	593
BATAIA Co-operative	150	167	200	222
CARBUNELE "	75	83	100	111
DR.,G., N.,	30	75	40	100
COMBUSTIBIL "	30	33	50	56
SOTANGA	50	56	70	78
GEORGESCU & BENDIC	75	83	270	245
EXPL.VALEA MEULUI	30	33	80	33
SOMES VALLEY REGION	620	1,580	790	1,960
BORECANI Mines	310	640	370	700
SOC. VALEA AGRISULUI	160	340	220	660
SURDUC Minos	150	600	200	600
TOTAL	10,135	13,845	111,845	15,396

SECRET

U.S. OFFICIALS ONLY

-12-

COLL (contd)

The fellowing coal mining concerns were expropriated in June 1948:-

Hamo of Concorn Location PETROSANI S.A.R. Valoa Jiului Doicesti (Distr.Dambovita) CREDITUL CLABONITER S.L. Commesti, Cozla LONEA S.A.R. Valoa Jiului CONCORDIA Schitu/Golosti; Brasov-Codloa Vulcan DERILL-TATARUS Derna-Tatarus SORECANI Cluj (Achires region)

MINELE do LIGNIT din SALAT Sarmasag

-13-

VI. MINERALS

mineral Production (other than iron oro) (tons)

	1936	1939
Hanganoso ore	33 , 856	41,546
·Pyrites (copper and iron)	9,099	5,869
Copper ore	1,582	25,108
Load oro	47,470 [*]	46,589
Bismuth and Molybdonum	27	9,164
Bauxite	10,829	10,460
pilvor (fine ozs)	594,757	819,876 HH
Gold (fine ozs)	1.60,014	211,496

ня 1937 ня 1938

(a) GOLD & SILVER

Gold and silver ores are mined in Transylvania and in the BAIA MARE district.

(b) MANGANESE

Moserves of manganese amount to 9 million tons of high quality ore. These are mainly in the BAMAT and BUKOVIN..

(c) COPPER

Copper pyrites, found in Dobrudja was only in the early stages of exploitation in 1939. Output was in the hards of the "Greditul Minier" petroleum company.

(d) LEAD & ZINC

with the lead-silver ores in Transylvania.

Zine production in 1938 was 5,900 tons - all exported. Lead ores were all smelted in the country. Production of lead metal in 1938 was 5,673 tons and was sufficient for domestic requirements. In 1946 it was only 1,274 tons. Lead smelters and refinerios are at Satu Mare and Lucaci (near Slatma)

(c) BAUXITE

Sauxite reserves in 1939 were estimated at from 20 to 30 million tons. The most important deposits are in the Bihor mountains in Transylvania and contain 50

Approach Release 006/04/21 : CIA-RDP83-00415R002400100001-2

U.S. OFFICIALS OF

MINERALS (contd)

-14-

to 57 per cent aluminium oxide and 10 to 30 per cent of iron oxide. Production has, however, been very small and the founding of an aluminium industry has been continually postponed.

(f) CHROME

The development of chromite deposits in the Severin mountains near the Danube was contemplated in 1939. Production began in 1942 when 500 tens were mimed. The one contains 30 to 50 per cent chromium exide and 15 to 30 per cent from exide. Rich strata in the Banat are estimated to contain reserves of 10 million tens of chrome ore. The Temesvar mine was exploited by the Germans in World War I and yielded 40,000 tens in 1917. The DABROVA deposits are considered to be the richest, with a 50% chromium exide content. Their exploitation had not commenced in 1940.

(E) MOLYBUEIUM

Molybdonum is found in the Bihor district. Production on any scale did not begin till the late 1930s. Production is known to have expanded considerably during the war, but detailed figures are not available.

Principal producers of Gold, Silver, Lead, Bauxite and Molybdenum

GOLD Gompany Location

MIGA, was R. Mines at: RUDA (12
Apostles)
BARZA
BRADISOR
CARACIU
MUSARIU
VALEA MORII
ROSIA

Comprising 2333 ha of mining concessions. Production in 1942: Fine gold 2,084 Kgr. (Total Roun. Gold produced 2607 kgs) VALEA MORII The Company furthermore owns Mica mimes at VOINEASA. Annual prod. about 90 tons. Coal mines at TEBEA. Prod. in 1942: 34,790 tons used exclusively in Comple own thermo electric power station at CURA-BARZA. Two power lines: (a) to CERTEJ-DEVA (25,000 v) and (b) to ZLATNA-ABRUD (60,000 v). Output in 1942: 20,463,687 Kuh. Total number of workmen in Company's omploy:

Remarks

AUR S.A.R. Min.

Gold Mines at;
BUCIUM (4,000 ha
concession)
Gold Flotation
and Cyanide installation at
BUCIUM
Mercury Plant at
ZLATNA

The Company also owns
Mercury mines at VALEA
DOSULUI (700 ha concession). Capacity 80 Kg.
mercury per day.
Lead mines at ALEASUL
Mic de MUNTE (400 ha)
Bauxite concession (6,000
ha) at SOHODOL, POMOREL
and SCARISOARA.

4,500.

Approved Exp 2006/04/21 : CIA-RDP83-00415R002400100001-2

-15-

MINERALS (contd)		
Company	<u>Location</u>	Romrks
GOID (contd)		MOLET RS
MINAUR (State-owned) formerly RIMMA	BAIA MARE	Produces: Gold, Silver, Pyrites, Copper sulphate sulphuric acid, etc. No details available as to quantities.
A. L IULUMUA AIMTOUUMI	ABRUD	Gold mines at BUCIUM
MINES D'OR do STANIJA S.A.	STANIJA	French capital: Gold mining concessions at STANIJA.ALMASUL MART
MINELE de AUR "DREAZA ZLATHA" S.A.R.	AHTALS	and TECHEREU (ALBA district) Prod.in 1041 39 K. Gold; 18 K. Silver.
MINION ZDATHA" S.A.R.		Prod.1941: Gold 167 Kg. Silver 183 Kg.
BAUXITE		
ALUMINIA S.A.Min.	BRATCA	No details
B.UKIT. S.A.R.		ii 11
IND.ROM. de ALUMINIU	ZLATNA PADUREA CRAIULUI in BIHOR Distric	u u
NITROCEN	TARH.VEHI	Aluminium plant crected in 1942. No details available.
MOTA BUTTAN		
MOLYBDEN S.A.	Mines at BAITA an district of BIMOR	d Molybdonum.Flotation plant capacity 50 tons ore per day.
LEAD FINES		- 1 por acty
State Mines BAIA MARE formerly R.I.M.M.A.	(1) Baia Spric (2) Baiut (3) Capnic (4) Dealul Grucei	Load in ore output 1939 (tons) 1,320 300 1,154 25 2,799
Smelter and Refinery	FIRIZA do JOS (BATU MARE)	Capacity 5,000 tons refined lead per annum.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

- 16-

MIMERALS (contd)
Company
LEAD MIMES (contd)

Location

. Chil

Remarks

"PHENIX" FABRICA DE ACID SULFURIC SI PRODUSE CHIMICE Output:-2,864 tons of ore in 1939.

Smolter and Refinery

BAIA MARE (LUCACI)

6,000 tons crudo lead p.a.

3,300 tons refined lead p.a.

2 furnaces 4 reverberatories.

(h) SALT

Salt mining has been a State Monopoly since 1863. During the period 1937 - 1945, annual production has fluctuated between 276,600 and 380,000 tons.

is 10 kgr. (including salt fed to domestic animals). Internal consumption is thus covered by 130,000 tons, plus 100,000 tons for Industrial purposes.

The principal mines are situated at

TIRGU OGNA SLANIC OCNETE MARI OCNA MURESULUI

Production in 1945 was 280,000 tons. Convict labour is used.

(i) CHAIK

Compa ny

Locat ion

Remarks

S.A.A UZIMELAR SOLVAY DIN ROLLING.

Sandulesti

Chalk quarries, producing 300,000 tons of chalk per annum.

SECRET

()

-17-

VII. PLTROLEUM INDUSTRY

Roumania is the sixth among the petroleum producing countries of the world. The main producing fields extend from the Iron Gates of the Danube eastwards. The Campina and Ploesti region are the centre and here also are the biggest refineries of which there were 35 in the country. Some have recently been closed down. Estimated known reserves in 1945 were 57 million tons. Peak production appears to have been passed. Output in 1936 was nearly 9.3 million tons but by 1939 it was only 6.24 million tons.

"Astra Romana" was the largest single company producing oil. This company was a subsidiary of the Royal Dutch Shell group

Owing to the deterioration in equipment, Roumanian output fell steadily during and after the war. In 1946 only 4.193 million tons were produced. In March 1947 British companies reported that their equipment was no longer serviceable for economic operation and only 135,000 metres were drilled in 1946 as compared with an average of 340,000 metres per annum during the War. Only 3 per cent of the output in 1946 was available for sale in the export market. 57 per cent went in reparations to the U.S.S.R. and 40 per cent was reserved for home use.

The policy apparently was to make the continued operation of the oil companies in which Allied capital was invested, impossible and in 1947 only 3,929 million tons of oil were produced. Deterioration of refineries, wells and drilling machinery was held to be so great that the industry was considered beyond repair. In March 1947 it was calculated that \$50 million would be required to modernise the refineries alone.

In March 1948, Astra Romana S.A. declared itself forcibly dissolved. The Roumanian Government has thus been able to squeeze out forcign interests without the legal obligation to pay for damage wilfully done.

The drief Roumanian oil producing companies are as follows:-

Principal Oil Producing Companies

Company		Output (000 tons)
	1938	1939	1946
ABTHA ROHAMA S.A. (Royal Dutch-Shell Subsidiary)	1,461	1,363	1,383
"CONCORDIA" S.A.R. PENTRU INDUSTRIA PETROLULUI	864	824	502

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

25X

App. 3 of Fire Pass 2006/04/21 : CIA-RDP83-00415R002400100001-2

-10-

PETROLLUM INDUSTRY (contd)

Company		Output (000	cons)
	1938	1939	1946
ROMANO AMERICANA S.A.	899	778	490
STEAUA ROMANA (Half Roumanian, one quarter British, one quarter French)	740	714	434
"COLUMBIA" (French)	377	625	290
"UNIREM" S.M.R. DE PETROL (British)	671	522	283
CREDITUL MINIER	381	305	236
PRAH OV A	335	309	200
INDUSTRIA ROMANA DE PETROL (I.R.D.P.)	167	147	7 9
FORAKY ROMANESCA	53	47)	
AUPUL DE PATROL ROMAGAGO	110	95)	
DACIA ROBANA. PETROAEUM SYNDICATE (British)	58) 54))	294
REDEVENTA	28	30)	
FORACE LEMOINE	56) 43)	

Refineries

vas 26,600 tons before the war. Allied bombing during the war (particularly of the Astra Romana and Creditul Minier plants) reduced their capacity temporarily but by the end of 1946 the plants were capable of producing 19,700 tons daily. Principal refineries are as follows:-

Principal Petroleum Refineries

Company	Location	Pro-war Capacity (000 tons	Romarks
ASTRA ROLLINA S.A.	Ploosti	1,800	Production includes high grade oils and lubricants
THEAUN NO MANN	Campina .	1,575	
CONCONDIA & VEGA	Ploesti-Word	1,350	
UNIREA S.A.R. de PETROL	Ploesti	1,035	

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

SECRET

-19-

PETROLEUM INDUSTRY (contd)

Company	Location	Pre-war Gapacity (000 tons p.a.)	Romarks
HOMINO AMERICANA	. Teleajen	900	
PETROL BLOCK (Stamlard)	Ploesti	540	
Others		2,800	
1	COTAL	10,000	

Among the "others" are:-

CREDITUL MINIER

Brazi,noar Ploesti Aviation spirit, high grade oil and

lubricants

COLO IBIA

Ploesti

PHOTOGEN RAFINARIA

DE PETROL S.A.

Brasov

TITAM S.A.R. de PETROL Bucharost

15

Nationalisation

The whole Roumanian oil industry (with the exception of the "SOVRON PETROL" was nationalised on June 11th, 1948.

On July 12th and 27th, 1948, Ministerial Docisions were published in the Official Gazette creating two Petroleum Centres, viz. "MUNTENIA" comprising all oil enterprises and State Pipe Lines in WALLACHIA and "MOLDOVA" comprising those in MOLDAVIA.

(Pipe Lines and Pumping Stations

The pipulines and pumping stations are run by a special Department of the Roumanian State Railways.

(a) Pipelines

Pipeline Wo.1

From BAICOI through PLOESTI, TELEMJEN (3 miles North East of outskirts of PLOESTI), BUAZU, FETESTI, CONSTANTA. Distance 296 km.

From BAIGOI to MONTEORU,9" anside diameter. From MONTEORU to GONSTANTA $10^{\rm H}$ inside diameter.

Carries white products only .

Pumping is effected at TELEAJEN and re-pumping

at BUZAU.

-20-

PETROLEUM INDUSTAY (contd)

Throughput 2,000 tons per 24 hours.

Reservoirs for receiving the products from the various companies are situated at BAICOI and TELEAJEN. Capacity of reservoirs at TELEAJEN is 22,000 cu.m.

The course of the pipeline is parallel with the railway as far as FETESTI, after which it falls away from the line.

Pipelines Nos.2 and 3.

From BAIGOI through PLOESTI-WEST, CHITILA, BUCHAREST circular railway line, thence along highway from BUCHAREST to GIURGIU.

Insido diameter 5"

Throughput 450 tons per 24 hours for each pipeline.

Carries motor petrol, oil distillates, octanic petrol and motorine.

Reservoirs for receiving the products at BAICOI and FLORSTI-WEST.

Distance from BAICOI to GIURGIU, 145 km. each line.

Pipeline No.4

From BAIGOI through PLOESTI-VEST to BUCHAREST.

Insido diameter 5"

Follows the railway line throughout the whole distance of 76 km.

Carries crude oil for the PETROL-BUCURESTI refinery owned by the PRAHOVA Company.

Throughput 600 tons per 24 hours.

Reservoirs for receiving the crude oil at BAICOI.

Pipeline No.5

From TELEAJEN to BUCHAREST, alongside the PLOESTI-BUCHAREST hi, hway.

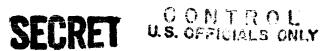
Outside diameter 10"

Throughput 1,650 tons per 24 hours.

Carries special fuel to Bucharest.

Distance 56 km.

Reservoirs at TELEAJEN.



-21-

PETROLEUM INDUSTRY (contd)

Pipaline Ro.6

above) at FAUREI, and thence passes through BRAILA and CALATZ to the Russian bulk station at RENI.

Erected from material dismantled from the former 10" line from TELEAJEN to GIURGIU.

Outside diameter 10" with exception of PLON TIME Section which is 9".

Distances: PLOESTI-MOUTEORU (16 Km. A. of

BUZAU)

60 Klm.

MONTEORU-FAUREI

50 Kla.

FAUREI - RENI

110 Klm.

Carrios motor petrol

Throughput TELMAJEN to RENI 2,000 tons per

24 hours.

(to COMMIANTA) or separately.

Reservoirs at TELEAJEN.

Figo line No.7

available. CAMPINA . BAIGOI - two lines. Diameter not

Pipolim Wo.8

Oil well gas only. Length 54 Klm. Work on this line was started in August 1948 apparently for the purpose of making uniform the pipe diameter over its whole length, which will termit of an additional 400,000 cu.m. of gas to be delivered to Ducarest, chiefly for Industrial Plants, communely becomes, 1948.

(b) Pumping Stations

Ja ICOI

Serves pipelines Nos.1,2,5 and 4.

Has two reserve pumps.

Products are sarried to PLOESTI-JEST and TELENJEN, the principal pumpang stations, by the natural fall of the pipeline.

Reservoirs at BAICOI: 11 reservoirs each of apacity for the various products.

Approved For Report 0006/04/31/1/CIX-RDP33-01/415/R002400100001-2

-22-

PETROLEUM INDUSTRY (contd)

Pumping Stations (contd)

PLOESTI-WEST

pumping station for pipelines 2, 3 am 4. Solo

of Ploesti. Situation on Western outskirts of the town

Reservoirs: 8, of varying capacities. Total

ongines. The station comprises 4 pumps worked by steam

الأنظيب مرا نظا

Situated on Eastern outskirts of Ploesti. Serves pipelines Nos. 1, 5 and 6.

cu.m. for the various products.

Diesel motors.

(c) RE-PUMPING STATIONS

DUZMU

3ituated on South-western outskirts of BUZAU. Serves pipeline Re.1 and also, indirectly No.6.

las 2 reservoirs for possible evacuation of products from the pipeline.

Centrifugal pumps operated by Diesel motors.

HAGIRNI.

Situated on the branch line from TANDAREI to METESTI, 20 km. HET of the latter. Serves pipeline Ho.1 only.

(d) BULK KECHTVING STATIONS

PALAS (CONSTANTA)

For Pipeline No.1

GIURGIU

For Pipelines Nos. 2 and 3.

Approxed For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2 OFFICIALS CIVE

VIII METHANE CAS

thereas the production of oil well and refinery gas in Roumania has stoadily declined

from 3,766,000,000 cu.m. in 1935

1,550,197,218 in 1939

1,304,400,000 " 1045

to 1,000,000,000 " " 1947 (approx)

the production of Jethano Gas in Transylvania has stoadily increased from

133,180,545 cu.m. in 1935

358,482,682 " 1939

537,565,500 1945

to 981,418,812 it · " 1947

Comparison with other countries shows that Tethane gas deposits in Transylvania, estimated at over 300,000 million cubic actives are high in relation to Roumania's size and population. The use now being ande of these deposits is hardly adequate, (0.3% per annum of the total as compared to 2.5% in the United States and 1% in the U.S.S.R.) Even a moderate exploitation of Transylvanian Mothamo Cas fields could yield, without excessive effort, a production of approximately 3,000 million cubic motres a

In order to prove how great fuel requirements are in the present stage of development of the Roumanian industry, the following figures my be of interest, showing the total fuel consumption of various kinds in 1939.

Fuel Consumption in Roumania and its equivalent in methane Gas

		THE TO UTTALLE COLOR	
Fuc l	Fuel Consumption		I .
Coal	2,303,094 tons	Gas 125 Cal/m ³ (15°-C	<u> </u>
Firewood	6,000,000 #	1,70,748,000 cu.m.	23.5
Liquid	1,491,877 "	3,000,000,000 ii	41.4
fuol		1,758,622,000 m	24.3
Oil well a refinery Gas	309,036 thous. cu.m.	്30,933,000 മ	6.0
Mothan o Las	348,655 H	348,655,000 m	4.8
TOTAL		7,239,148,000 #	100.0
			L

SETT U.S. OFFICIALS UNLY

-24-

METHANE GAS (contd)

The increased Methane has production in the last few years replaced industrial liquid fuels first in the area of Brasov, and later in the upper valley of the Prahova and in the petroleum area by approximately 600 million cubic metres of methane has.

The construction of the pipeline BOTORCA-BUCURESTI which was completed in December, 1947 is designed appreciably to reduce the internal industrial liquid fuel consumption in the Bucarest region. The oil well cases piped from MANESTI to BUCLAREST proved to be insufficient for that purpose.

Apart from the production of carbon black, which was begun by the "SONN MTAN" Company in 1935, Mothane gas an used on a small scale as raw material by the "NITROCEN" and "NITRAMONIA" Companies for the production of synthetic ammonia, as also by "SONAMETAN" beginning from 1941, for the production of formaldehyde, oxalic acid and formic acid. It is stated that large plants for the production of synthetic ammonia and nitric acid from methane gas are under construction betails are required.

Methano gas is used by industries of all classes as is shown by the following table:

		, , , , , , , , , , , , , , , , , , , ,		
	<u> 13</u> :	runch of imustry	Concerns using wothane gas	Concorns using other fuel
(a)	Build	lin; material industry		
	(ii) (iii)	Conont Live)Pricks and vides Glass	64.8% 22.5% 7.7% 64.5%	35.2% 77.5% 92.3% 35.5%
(b)	Choin	icals		
	(i) (ii)	Salts, acids and alkali one micals in conoral	s 30.0% 5.8%	70.0% 94.2%
(c)	hota	llurgical Industry		
(.111)	Cables, sheet steel fron works Vehicles Metallurgical industry in general	15.4% 17.3% 19.4% 15.3%	84.6% 72.7% 80.6% 84.7%
(d)	Timbe	or industry		
((1) (11)	Paper and cellulose Timber industry in General	67.7% 11.6%	32.3% 88.4%
(0)	Toxti	llo imustry		
	(i)	General textile indust (wool, cotton, silk)	ry 9.5%	90.5%
' e)	Tonth	on industra		

(f) Leather industry

(i) Leather, show leather 12.1% 87.9% App Valor 2006/04/21% CIA-RDP83-00415R002400100001-2

Approv **SERRE** 2006/002 Och - RDFB3-00415R002400100001-2

-25 -

METHANE GAS (contd)

Branch of Industry	Concerns using motherno gas	Concerns using
(g) Food industry	no oriente (sa s	other fuel
(i) Sugar (ii) Mills (iii) General food industry	4.4% 21.0% 4.1%	95.6% 79.0% 95.9%
(h) bloctric power industry	27.0%	73.0%

The above list shows that no and ustrial branch uses Methane gas exclusively.

100.0	942,299,289	100.0	618,925,326		528,912,432 100.0	100 • C	348,654,539 100.C	TOTAL
9.6	90,270,224	11.4	69,783,024	13.3	69,685,059	19.7	68,710,978	Carbonblack
23.8	224,047,493	28.0	173,150,545	23.5	125,061,434	٠ ٥٠	£0.5 625.0 €0.0±	and boilers
44.3	888 000 411	000	9000			70] 3E E/O /3/	Industrial funnacea
		3 3 4	200 007 686	33.9	178,979,923	30.0	104,675,305	Power Stations
						-		Industry:
22.3	210,580,750	28.3	175,984,071	29.3	155,186,016	11.4	39,718,822	Lighting
<i>198</i>	Cu.metres	1%	Cu.metres	1%	Cu.metres	l≎∂	Cu.metres	
477	1947	1946	Terretor sugar n a	1945		_ 10	1939	
		and 1947.		1939,	Methane Gas consumption in 1939, 1945, 1946	Gas co	Methane	

SECRETASE 2006/04/24: FIA FIDE 3-00415R002400100001-2

-27-

IX. CARBON BLACK PRODUCTION

- Production of Carbon Black is in the hands of one concern, the SOCTETATE MATIONALA DE GAZ METAN, which runs two factories situated at COPBA MICA and MEDIAS. The capacity of the COPBA-MICA plant is 1,400 tens. The MEDIAS DISSOCIATION PLANT came into production in 1941 with a capacity of 200 tens per annum.
- 2. In 1939 actual production was 908 tons, by 1947 it had risen (both plants) to 1,100 tons. At the same time the percentage of gas consumed for carbon black as compared to gas output fell from 19.7% to 9.6%.
- 3. The production of thermal dissociation carbon black is to be further developed so as to reach a total output of 1,800 tons. A credit of 17.5 million Lei was accorded by the Government in July 1948 for this purpose.

Approved for Release 2006/04/21 CIA-RDP83-00415R002400100001-2

-28-

X. STEEL WORKS AND ENGINEERING CONCERNS.

The most important concern is the

(1) "ACIERIES & DOMAINES DE RESITA"
(UZIVELE DE FIER SI DOMINITLE DIN RESITA)

now name: F.BRIC. VIITORUL.

The Company's Lain works are situated at RESITA, in the CARAS district of the BANAT (S.W. corner of Roumania) and its Domains extend between LUGOS and the DANUBE, parallel with the Yugoslav frontier for about 60 miles. The estate comprises about 90,000 hectares, covered partly by forests (chiefly beech), and 50 hectares of vineyards. Mearly 1,000 klm. of roads and 175 klm. of normal and narrow gauge railways owned by the Company ensure internal communications.

(a) Coal Mines

The Company owns three coal mines, situated on its estate at

- (i) ANINA (4 shafts) with coal screening am washing installation.
- (ii) DOULH (1 shaft) with coal screening installation.
 (iii) SECUL (1 shaft) with pneumatic coal screening installation.

the total amual capacity of which is about 200,000 tons of coal. Actual production in 1943 was 163,469 tons. The company also produces about 50,000 tons of briquettes in its factory at DOMAY. The coal from (i) and (iii) is suitable for coking.

(b) Coking Plant

The modern coking plant built in 1934 is situated at RESETA and is composed of 24 evens, producing 80,000 tens of coke per annum. As this is insufficient for their even requirements, the Company has to import considerable quantities of coke from abroad, chiefly from Poland. When working to capacity, RESITA requires 130,000 tens of coke per annum.

(c) Pig Iron Production

The two blast furnaces at RESITA have an annual capacity of 120,600 tens and produced in 1943 a total of about 105,000 tens of pig iron. The Company owns iron ore mims at DOGNECEA (iron content 50-60%, having visible reserves of 400,000 tens and probable reserves of 600,000 tens, and other mimes situated at OCNA do FIER, FENES, DELINESTI, SIMMRSIC and ARMENIS.

when working to capacity RESITA requires 208,000 tons iron and manganese ores per annum. In 1943 they imported 145,000 tons, the balance of 57,400 being obtained from their own mines. As a result of the recently concluded Trade Agreement with Yugoslavia, RESITA is to receive 200,000 tons of iron ore from Yugoslavia.

REARTE CONTROL

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

SECRETUS ONTROL

-29-

STEEL JOHKS LEG ESCHIEERING CONCERNS (contd)

(d) Steel Works

There are seven Siemens Martin furnaces, capacities. S of 45; 2 of 50; 1 of 60 and 1 of 100 tens. One of these furnaces is oil fired. Annual capacity 245,000 tens of open hearth steel. In 1943, the production was 222,355 tens. There also exists a special 4 ten oil-fired furnace for special steel castings.

(e) The two HEROULT Electric Furnaces of 6 aml 3 tons respectively have an annual capacity of 15,000 tons aml produced 11,000 tons of special steels in 1937.

(f) Foundry

The iron foundry has a capacity of 15,000 tons but produced only 7,900 tons in 1943 and also 200 tons of bronze castings. It is equipped with up-to-date moulding anchines.

(g) Rolling Mills

The rolling mills (total capacity 220,000 tons per annum, consist of:-

- (a) Rails and sections mill, capacity 130 tons per 8 hour shift. In 1943, production reached 80,962 tons.
- (ii) Plate and sheet mills on which thick, medium and thin material can be rolled. Capacity 60-70 tons per 8 hour shift. In 1943 production was 26,233 tons.
- (111) The "medium" rolling mill, composed of a preliminary and a finishing mill, producing small additions such as Decauville rails, etc.; capacity approximately 80 tons per 8 hour shift. In 1943 production reached 53,025 tons.
- (iv) The light rolling mill, producing reinforcing rods, strip, etc. Capacity about 80 tens per 8 hour shift. In 1940 production was 61,329 tens.

(h) Tyre Shop

This modern installation was built by German experts in 1934 and has a 2,000 ton hydraulic press; heat treatment is entirely electric. The capacity of this shop (25,000 tons per amum) is sufficient to cover the entire peacetime steel railway tyre requirements of all the Balkan States. In 1942 the production of tyres reached 11,160 tons and in 1946 - 12,368 tons.

(i) Refractory Brick Factory

The company manufactures the greater part of its requirements of lower grade refractory fire brick ("Chamotte in its own factory situated just outside the team of RESITA.

SECRET CONTROL

-30-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Its annual capacity is about 15,000 tons. The output of ordinary building bricks is about 3 million per annum. High grade Ma mosite and allica bricks are, however, imported from abroad (Gzochoslovakia).

(j) Comont Pactory

In 1944 the Company installed a Cement Factory which produces "slag coment". Its annual capacity is 5,000 tens.

(k) Locomotive Shop

This shop was built in 1924 and is equipped with modern machinery. Its capacity is 10,000 tens, equivalent to 150 new loces per armun. In 1939 over 4,000 tens were produced; in 1941 only 1,690 tens plus heavy repairs of 49 old locemetives. An order for 24 new locemetives for Russia, on reparations account, is to be carried out during the 5th "Armistice Year", 30st.1942/August 1949.

(1) <u>For</u>o

The equipment is old, consisting of 15 steam hammers of 5 tons and above; 17 presses of 2 tons and 31

(11) Machine Shops

of cuns and shells were transferred from RESITA in 1036 to the ASTRA Works at MASOW (q.v.). In 1039 the shops were modernised and in 1945 disposed of 862 up-to-date machine tools capable of carrying out high grade machining. In spite of the transfer of the armament side to BRASOV, RESITA resumed production of cun parts and almunition during the war. In 1942 this production reached 7,680 tons. Part from this these workshops turned out over 10,000 tons of various machines and tools for the Petroleum

(n) Tool Room

An absolutely up-to-date tool room with 146 high grade precision in chine tools was installed in 1935 in which, apart from all normal tools, the most complicated cutters, reamers and gun rifling appliances can be ranufactured.

(o) Bridge building mard

This is one of the largest of its kind in South the country, many of thich are entirely welded. It also specialises in metal aircraft hangars, oil reservoirs and other in 1943 only 8,900 tons.

-31-

STEEL WORKS AND INCINEERING CONCERNS (contd)

(p) Whool set shop

This shop is equipped with 68 heavy anchims for machining steel tyres and shrinking them on to loco and waggon wheels and also fixing the whoels on the axles.

(a) Shop for production of railway points and switches

Adjacent to the wheel set shop is the well laid out points and switches shop which in 1946 produced 1,700 cample points and switches for both normal and Russian broad gauge

(r) Restricted anchinory construction shop

In this shop, built in 1923, electrical equipment of all sorts (electric motors up to 2,000 H.P.) are built for the Company's own use, as well as for sale to other industries.

(s) Agricultural Machinery factory

Situated at BOCSA ROMAIL, this section produces plouchs, harrows, drills (on the RESITA Domaine), threshing anchines, etc. Its capacity is about 30,000 machines per annum. Apart from this the factory produces every type of tool used by the peasants in field work.

In 1936 a special plant for the automatic production of horse shoes was installed. Its capacity is 3 million horse shoes per annum, which covers the total requirements of the country including the army. Expressed in tons this factory's output reached 7,035 tons in 1943.

Bolts, Nuts and Sereus factory

The annual output of this section is about 3,000 tons and consists chiefly of railway interial such as fish plates, spikes and bolts.

ELECTRIC POWER STATIONS

1 Notro Vickers Turbine of 7,500 Kw (Installed 192 ANIMA:

1 Brühm Turbine of 2,000 Kv. (Installed 1919)

Pulverised coal fuel is used in the boilers.

RESITA: 1 A.E.G. Turbo-alternator of 4,500 Kv. (Installed

4 Jas motors "Eberhardt & Schmor" of 900 Ku each

(in reserve)

GREBLA: 1 Turbo-alternator 8,000 Km. Brown Boveri. Installed 1940. Fed by 2 modern VELOX high pressure boilers.

> 1 Hydro electric power station of 4,500 Kw.capacity (3 Pelton turbines).

P83-00415R002400100001-2

-32-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

There are also some smaller power stations on the Demain which serve local purposes only (e.g. one 200 Kw. Turbo-generator A.E.G. and one 200 Kw. Francis Turbine at GREBIA.

Total production of electric power amounts to over 100 million kwh per annum.

Timber Industry

The company possesses four timber mills as follows:-

 Λ NTNA 4 frame saws

3 circular saws

2 "Pendulum" savs

1 Installation for steaming beech wood.

Installed power 150 H.P.

VASIOVA 3 frame saws

4 circular saws

1 Installation for steaming beech wood

Installed power 220 H.P.

VALIUG 2 frame saws

l circular saw

Installed power 75 H.P.

2 frame saws ZAVOI

l circular saw

Installed power 50 H.P.

Annual production;

30,000 cu.m. logs ANIMA

13,000 cu.m. sawn timber

7,000 cu.m. logs V..SIOV.

4,000 cu.m. sawn timber

4,000 cu.m. logs VALIUC

2,000 cu.m. sawn timber

√,000 cu.m. lojs ZAVOI

2,500 cu.m. sann timbor

The company furthermore produces: 1,000 cu.m. of firewood 1,000 cu.m. of pit props 1,000 cu.m. of constructional

200,000 cu.m. are treated in the wood distillation factories at RESITA and VALEA MINISULUI, where charcoal, methyl alcohol and acetone are produced.

Ap Second 2006/04/24: @IARDP83:00415R002400100001-2

-33-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Quarries

The Company quarries 70,000 tons of limestone, 1,000 cubic metres of granite, 200 cubic metres of marble and 12,000 tons of sand for metallurgical purposes.

Assorbly and filling of Armunition

Together with the ASTRA Company, RESITA installed, prior to the war, a large armunition assembly and filling station at ORASTIE. It is reported that this has now been transformed for the manufacture of pharmaceutical (See also under "Astra", Brasov).

Wine Production

The annual production of the Company's 50 ha. of vineyards amounts to approximately 1,000 hl. of wine

Reported actual production in 1946

24 new locomotives
4,901,railway waggon wheel sets
7,900 tens of bridging material
1,700 complete points and switches
25,000 drill pipes (for oil wells)
460 drilling bits
150 electric motors
10 steam engines
10,000 tens of rolled material

Humber of workmen and employees in 1946

25,000 (approx).

The Tochnical Director is a Russian: F.SERGHIENKO.

-34-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(2) The Elling CROUP

Head Office: Bulevardul Bratianu Ho.35a, Bucarest.

The MALAXA Group of factories is composed of the following three companies:-

N.MALAXA S.A.R. FABRICA DE LOCOMOTIVE SI MASINI

(Nov called "UZINA 23 AUGUST")

with works situated SOSEAUA VERGULUI, MALTA TITAN near Bucarest, comprising the Locomotive and Machine Factory.

N.M.L.X. UZINILE DE TUBURI SI OTELLRII S.A.R. (Tube and Steel Vorks)

(Now called "UZIMA REPUBLICA")

having their works also at HALTA TITAN which is situated on the Eastern outskirts of Bucharest about 4 Klm. from the "BARIERA VERCULUI".

W. MALAXA S.A.R. FADRICA DIN TOH MUL VECHIU

(Now called "UZILA 6 MARTIE")

Shell and Fuze Factory and Filling Station, situated at TOHANUL VECHIU in Transylvania.

(Note: During the ATOMESCU regime, the whole concern was known under the name of ROGIFER).

U.S.A. in 1946 as a member of a delegation sent out by the Roumano-American Chamber of Commerce in Bucarest and has in June 1948.

A. HALTA TITAH WORKS

This group of works, which comprises the Locomotive and Machine Factory, the Tube Rolling Mill and the Steel Works, extends over an area of 63 hectares. Shops and offices, all of modern design, cover about 20 hectares. The works are equipped with numerous railway lines, turntables, cranes and an electrical transporter for moving locos and waggens during and after manufacture.

1. POWER SUPPLY

Installed power at MALAXA Works at TITAN: 8,500 tons) are directly connected with the PLOESTI-BUCAREST Purple line. ABTHAME was is to be piped to the works in the Autumn of 1948.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

SECRET CONTROLLS ONLY

-35-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

2. PERSONNEL

Whoreas the strength of the office staff was 810, the number of men employed at all the branches of the TITAH works in December, 1945 was 7,344. In March 1948 it it had declined to 6,148, plus 450 apprentices.

3. STEEL WORKS

The Steel Works supply both the Locomotive and Machine Factories and were originally intended to supply also the Tube Mill.

2 Siemens Martin open hearth furnaces installed in 1936.

Capacity: 30,000 tons per annum. Production in 1942 - 22,000 tons " 1943 - 25,000 tons.

In the Autumn of 1947 a new 6 ton oil fired Siemens Martin furnace was installed, with a capacity of 6-8,000 tons per annum.

l Electric furnace with a load capacity of 2 tons and annual output capacity of about 1,500 tons of tool steel.

4. STEEL FOUNDRY

	1939	1940	1941	1942	1943
Production of steel castings (tons)	2,884	2,468	2,690	4,136	4,570

Cast Steel wheels for railways(pcs)

20,000 22,500

The works have recently started the production of cast stoel bogeys for large goods trucks of 50 tons capacity.

5. IRON FOUNDRY

	1939	1940	1941	1942	1943
Production of castings(tons)	914	1,497	1,608	2,400	2148
Components for automatic brakes (railways)(pcs)	2,344	108	112	129	26

6. NON-FERROUS METAL FOUNDRY

			1939	1940	1941	1942	1943
Production	in	tons	302	263	298	306	107

SECRET "SONTROL

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

SECRETUS OFFICIALS ONLY

-36-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

7. MOTOR VEHICLE REPAIR SHOP

Production figures: 1939 1940 1941 1942 1943
Repairs executed - 312 -

8. METALLIC CONSTRUCTION SHOP

Production figures 3,134 2,844 3,516 1,110 1,703 and steel traction bars (tons)

9. MUNITIONS FACTORY

This forms part of the Machine factory. During the war, however, part of the machinery was transferred to TOHATUL VECHIU. The bulk of the machinery is now stated to have been returned to the works at TIT.....

<u>1939</u> <u>1940</u> <u>1941</u> <u>1942</u> <u>1943</u> Production of Shells

(rounts) 516,000 835,000 883,000 1,635,000 1,050,000 (pcs) 475,000 80,000 467,000 1,500 000

(pcs) 475,000 80,000 463,000 1,504,000

Production of Brandt
mortar shells

1,500 336,000

570,000

Prior to and during the war the shells were completion.

No ammunition is being manufactured at present could be restarted in 4 months.

10. LOCOMOTIVE FACTORY

In March, 1948, this factory was stated to be turning out locomotives, railcars and boilers. The MALMXA Works also manufacture "KMORR" brakes, which are being fitted by the Roumanian Oil Companies to their own rail tank cars. According to a recent report, all such tank cars have to be fitted with automatic brakes by 1st December, 1948.

In 1947, up to 90% of total output was destined for Russia; this has recently been reduced to about 70%. A Russian delegate is attached to the Factory.

				J •	
Production figures for	1939	1940	1941	1942	1943
Production of now locos	79	41	8	-	_
" rail-					
cars	14	11	4	8	10
Repair of locos and railcars	295	214	226	136	42

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

4.3. OFFICE

-37-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Output of Locomotive and Machine Works during first Quarter of 1948

			20 8 CEST. CC	3r 01. TO	48	
		ua ry	Fot	ruary	 M	ar ch
(a) New locos	Plannod 2	plisho	d Plann	od Accor	n- Plan	
ror U.S.s Prico:Loi 20,700,000	·it.	3	3	3	3	3
(b) New railway trucks for U.S.S.R. Price Lei 3,721,000 c		60	50	40	50	15
(c) New Duplex Pumps for U.S.S.R. Price:Lei 4,100,000 o	 a _{i•}	1	-	ı	2	. 2
(d) Hew SUCHOV Boilers for U.S.S.R. Price: Lei 1,600,000 oa	6	6	6	-	6	. 6
(o) Repair of 2- axle rail- cars	1	2	1	4	1	(For 1(Rouma
(f) Repair of 4-axlo Railcars	4	3	3	4	6	(nîan (Stato (Klys) 3
(3) Automatic brakes for Russian Rlys.	10	5	10	12	10	9
(h) Automatic brakes for Russian Rly Waccons	50	52	50	37	50	25
Rly Waggons		ł				

The corresponding actual production figures for the second quarter were as follows:-

Nerv Joseph	<u> April</u>	May	June
New locos for U.S.S.R. (108 tons each)	3	3	7
. 			ی

New locos for Roumanian Rlys 103 tons each. Lei 31,000,000 each

LES. OFFICIALS ONLY

SECRET

CONTROL

-38-

STELL WORKS AND ENGINEERING CONCERNS (contd)

	April	May	June
How Railway trucks for U.S.S.R.	5 5	40	50 .
Duplex Pumps for U.S.S.R. 10 tons oach	2	2	1
Suchov boilers for U.S.S.R. 9 tons each	6 n	6	10
Bolinder Motors for U.S.S.R.	-		~

NOTE: MALAXA had on order - for reparations account - 25 Russian locomotives for manufacture during the 4th armistice year (Sept.1947 to Aug.1948). The last one of this batch is due for delivery on August 10th, 1948. The monthly production capacity for the 5th armistice year - dependent upon receipt in time of various rolled steel components from the RESITA Steel Works - has been reported to be:-

- 5 DOLIMBER 25 H.P. Industrial motors for U.S.S.R. Price Lei 780,000 each.
 (All ball bearings to be supplied from Russia)
 1 "DUPLEX" Pump, capacity 315 cu.m. per hour.
- 6 SUCHOV boilers of 35 m2/3 atmos.
- 5 locomotive boilers of 100 m²/25 atmos.

It would appear that during the 5th Armistice Year MALAXA are not to build locomotives. 25 of these have been allocated provisionally to RESITA.

In view thereof they are to manufacture 214 railway waggens for the Russian Railways.

11. MANNESMANN TUBE ROLLING MILL

Two mills of absolutely up-to-date design and of German manufacture were installed in 1937. A 1948 report states that total capacity of the two mills was approx. 100,000 tans.

The large mill, capable of turning out pipe upto 15 inch and having an alleged capacity of 75,000 tons, was dismantled in 1945 and sent to Russia on reparations account. It is stated to have been re-creeted near NIKOPOL, probably at the large NIKOPOL-MARIUPOL pipe mills.

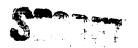
The small mill manufacturing tubes from $\frac{3}{4}$ to 6 inch (in 1947 increased by structural modifications to a maximum of 7 inch) with a capacity of 25,000 - 30,000 tons, was reported in April,1948 to be working full out. Raw material is supplied by the U.S.S.R. Only 10% of the output

SECRET

U.S. OFFICIALS ONLY

111111

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2



U.S. OFFICIALS ONLY

-39-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

is stated to be retained for Roumanian requirements.

Production of 8,285 14,177 13,987 8,081 8,135 Tubos up to 6 in. in tons

PRODUCTION CAPACITY of the TITAN LOCOMOTIVE AND MACHINE FACTORIES AND ROLLING MILL

Although the total production capacity of the factories depends on the type of products required, which varies from year to year, generally speaking the annual production capacity under normal conditions of the Bucuresti-Titan group of factories may be said to be as follows:-

New locomotives 36-60 pieces (depending on type and size)

New Automotors 18-24 pieces (4-axle)

Now Diesol Locos. 20 pieces

New goods was jons 500-550 pieces

Repaired locomotives 80-120 pieces

Repaired Automotors 60-80 pieces

Waggon Brake sots 6,000 sets (Knorr system)

Various Diesel motors 50 pieces

Bolinder motors 60 pieces

Simplex Pumps - 50 cu.m. 60 pieces

Duplox pumps, 315 cu.m. 24 pieces

Horizontal Boilers 72-80 pieces 35-180 sq.m.

Trammay tr ilers 60 pieces

Forgings 6,500 tons

Steel, iron and non- 18,000 tons forrous eastings

Manno sman Tubes $\frac{3}{4}$ " to 7") 25-30,000 tons

A permanent stock of about 20,000 tons of raw and semi-manufactured material and another 20,000 tons of steel billets for the tube factory are required to ensure

of steel billets for the tube factory are required to ensure
Approver of Release 2006/04/21: (LISROF83 00475R002400100001-2

SECRET

US. OFFICIALS ONLY

-40-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

an uninterrupted flow of production. These can be stored in the permanent warehouses, which cover an area of about 10,000 sq.m. and also in various subsidiary stores creeted between the workshops covering a surface of about 40,000 sq.m.

B. MALAXA SHELL AND FUZE FACTORY AND FILLING PLANT AT TOHANUL VECHIU

This factory is situated about 1 Klm. N.W. towards the mountains from the above-named village (N.72, E.16 on sheet 3555 of GSGS 4417) on the road leading S.W. from BRASOV to ZARNESTI and is well concealed by wooded features.

The factory started originally as a loading station for the shells manufactured in the TITAN works. In 1944 the greater part of the machinery for the manufacture of shells and fuzes was transferred from the Ducarest factory to this new site. The whole establishment was conceived on a grandiose scale, extending over a surface of 220 hectares and comprising about 28,000 sq.m. of buildings, 7 klm. of internal railway lines and 6 klm. of asphalted roads. The factory is supplied with Methane gas.

Ammunition manufacture ceased in 1945 and a considerable part of the machinery has been moved back to the works at HALTA TITAN, near Bucharest. As far as shell filling is concerned the equipment is alleged to be in a complete state of disorganisation.

At present the factory is producing Axelson Oil well pumps with spares, and iron bedsteads for the U.S.S.R. rotary drill chains and tooljoints for the Roumanian Oil Industry and domestic utensils for the home market. Railway trucks are also being built and repaired. About 60% of the factory's total output is stated to be for Russia.

Number of workmen

During the war between 4,000 and 5,000 men were employed. In april, 1948 it was reliably reported that only 1,000 skilled, unskilled and clerical personnel were on the pay roll. Of these, skilled workers represented only a small part. The factory works an 8-hour shift.

Shell Shop

A small installation for the manufacture of shells is alleged still to exist - less a number of minor items which are missing, but could be procured if shell manufacture was to be restarted on a worth-while scale. The greatest difficulty would appear to be the recruiting of skilled personnel. The management have reported to the Roumanian War Office that it would take them 1-2 months from receipt of an order to restart manufacture.



Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

SECRET

U.S. OFFICIALS ONLY

-41-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Power Station

Until recently power was supplied by the ZARNESTI Cellulose Factory, but in December, 1947 an old Diesel electric generating plant of 600 H.P. was installed. A second almost similar - plant was being erected in May 1948.

Raw Matorials

The factory is dependent at present for the supply of its principal raw materials on the following concerns:-

RESITA - for constructional steel and railway waggon components.

MALAXA - BUCHAREST - for special steels, steel castings and tubes.

TITAN, NADRAG, CALAN - for sheet steel, steel bars (round, flat and square)



U.S. OFFICIALS ONLY

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2 CONTROL U.S. OFFICIALS ONLY

-42-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

3. "TITAU, WADRAG, CALAU", S.A.R.

The second largest steel and engineering works in the country. The company was formed by the merger (in 1924) of 3 separate concerns, viz:-

- (a) The former Hungarian owned "SOCIETE DES MINES ET UZINES DE CALAN (Roumanian Danat)
- (b) The former Austrian owned Iron Company "IMDRAG"
- (c) The Motallurgical works "TITAH" of GALATZ.

In 1927, the GALATZ firm "Anglo Romana" was also absorbed.

MINES

This concern has its own iron ore mines at GMELLAR and at TELIUC (18 klm from CALAH, connected by narrow gauge railway to the blast furnace) producing Limonite, Lidenite, Haematite, Magnetite and reasted Dolomite. Maximum production of 82,000 tons per annum was reached in 1943. Installed power 400 H.P.

TIMBER

The Company also owns extensive timber reserves and produced 375,000 cu.m. of firewood and 30,000 tons of charcoal in 1943, all of which was utilised in the blast furnaces.

A. CALAN PLANT (New name: "UZINA VICTORIA")

l Blast furnace, 70 tons capacity per heat. Capacity 25,200 tons per annum if coke-fired; 22,000 tons if charcoal-fired. In 1943, actual production reached 24,100 tons. The furnace is in need of repair and will be overhauled in 1948 to ether with its Cowper blowers.

FUNDRY

Capacity 10,000 tons per annum. Output in 1943 reached only 6,100 tons. Products: baths, radiators, boilers, mechanical prosses, etc. Installed power: 400 H.P.

ENAMEL SHOP

Capacity 1,100 tons per annum. 1943 production reached 710 tons. Products, Sanitary ware.

POWER SUPPLY

600 H.P. Hydro-electric; 650 H.P. Thermo-electric.

B. FERDIMAND PLANT (New name "UZIMA OTELUL ROSU")

STEEL WURKS

d Open he arth Siemens Martin furnaces capacities 30; 20; 25 tons per heat.

Approved EpaRelegge 2006/04/21:tGIA-RESS 2004/58002409/060012 10111 10111

Approved For Re 15 (2014/2): CIA-RDP83-00415R0024001000010 N T R O L -43- U.S. OFFICIALS ONLY

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Production in 1943 - 60,000 tons 1944 - 34,000 " 1045 - 30,300 " 1946 - 28,300 " 1947 - (10 months) 29,248 tons

Small Foundry (Produces only for own factory use)

5 crucibles of 300 Kgr.each.

Cast iron roll foundry

Capacity 800 tons per annum. 1943 production was only 397 tons.

Rolling Mills

Two stand billet cogging mill. Capacity 60,000 tons. 1943 production 30,450 tons.

Thirteen stand rolling mill for sections, reinforcing rods, strip and wire rods. Annual capacity 50,000 tons. 1943 production - 23,024 tons

1 sheet rolling mill Maximum size of sheets 1,250 x 2,500 m/m and thickness 0.4 to 4.5 m/m

Annual capacity: 22,000 tons. 1943 production 15,850 tons.

1 cold rolling mill for flats

Annual capacity 6,500 tons, working 3 shifts 1943 production: 2,300 tons.

l plant for producing galvanised sheets, corrugated sheets and terms plates. Annual capacity, 10,000 tons. 1943 production 3,711 tons.

Nail and Wire Shop Produces also barbed wire. Annual capacity (working 3 shifts) 1,000 tons. 1943 production 434 tons.

Refractory Brick Works Produces only for own requirements. Annual capacity 5,000 tons (working 3 shifts); 1943 production 1,780 tons.

Power Supply Installed power: 7,670 H.P.

C. NADRAG PLANT (New name: "UZINA CIOCANUL")

ROLLING MILLS

to 1.0 m/m. Annual capacity 15,000 tons. 1943 production 9,562 tons.

1 galvanizing plant Annual capacity 10,000 tons. 1943 Production: 3,265 tons.

Workshops producing stoves, kitchen ranges, galvanized iron buckets, otc.etc. Annual capacity 3,600 tons.

Approved For Page 2006/04/21: CIA-RDP83-00415R002400 001N TROLUS. OFFICIALS ONLY

-- (_L_c-

SECRETING STRIPLES ST

STEEL WORKS AND ENGINEERING CONCERNS (contd).

Complete installation for producing tin plates

This was moved from the Titan Works at CALATZ to MADRAC and started production in July 1934. Annual capacity 5,000 tons. 1943 production 1,136 tons.

Power Supply

The installed power at FERDIMAND and NADRAG combined is:

Hydro-electric 5,298 Kw. Thermo-electric 1,555 Kw. Hydro-mechanic 530 H.P.

D. TITAN WORKS at GALATZ (New name: "UZINA CRISTEA NICULAE")

1 Sheet rolling mill

Annual capacity: 15,000 tons.

1935 production (highest reached) 8,124 tons

1943 Production

7.020 tons

1 Galvanizing Plant

Annual capacity 10,000 tons.

1935 production (highest reached) 8,124 tons

1943 production

Hil

Power Supply 1, 160 h. 2. (another report dated 1948 quotes 1,340 H.P.)

No. of Jork von in 1948 330.

SECRET CONTROL U.S. OFFICIALS ONLY

STEEL WORKS AID ENGINEERING CONCERNS (contd)

"ASTRA" Prima Fabrica Romana de Vagoane si Motoare S.A.

New name: UZINA STEAGUL ROSU.

This Company had its works or ig inally at ARAD, Calea Aurol Vlaicu, and was occupied almost entirely with the manufacture of rolling stock (excl.locomotives). Due to its precarious strategical location (very near the Hungarian frontier) the Roumanian Government brought pressure to bear on the Sampany in the early thirties for the transfer of the plant into the interior of the country. DRASOV was selected. Then the building of modern workshops there (Strada MONTERUS, 5) was almost completed, it was decided that the Armaments industry - located chiefly at RESITA in the BANAT .. was also highly vulnerable. Preference was given to the removal of the RESITA Armament Section. The RESITA Company acquired from the ASTRA the new DRASOV buildings. In these modern artillery, amunition and gun plants were installed. The original works at ARAD were maintained for the manufacture and repair of rolling stock only.

Just prior to the War, ASTRA-BRASOV built 75 mm. Vickors Armstrong A.A. guns under licence, as also Anti-tank machine guns of German design, chiefly the 37 m/m model, and manufactured artillery ammunition of all calibres up to 150 m/m (6 inch) in use in the Roumanian army. The gun barrel forgings were supplied by RESITA.

The ASTRA Works at ARAD were badly damaged during War. By 1946 they had been 80% repaired. the

Since the capitulation of Germany, all activity in the Armament field, both at RESITA and also at the ASTRA works in ERASOV, has ceased. The ARAD shops are occupied exclusively with the conversion of normal gauge rolling stock to Russian gauge and the manufacture of an order for 4,000 trucks and tank waggons for Russia on reparations account, of which only 525 Tank waggons and 117 four axle Russian type coaches were completed in 1946. ASTRA ARAD also repaired 500 goods trucks for account of the Roumanian Railways.

The works also turned out pumps and other machinery for the Soviet petroleum industry, on reparations 1,200 men are stated to be employed on this latter type of product.

The ASTRA Company jointly with the RESITA Company also owns an extensive plant at ORASTIE which before and during the war was exclusively engaged on shell and fuze filling. It is now being transformed so as to turn out chemical and pharmaceutical products. (See also under RESITA).

During the war the share capital of ASTRA was increased, all new shares being allocated to the Government. The latter, in consequence now hold 60%, RESITA 35% whereas 5% are in the possession of numerous small shareholders.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2



-46-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Production figures

During the period 1.1.45. to 1.1.48, the Company delivered 98% of its total output to the U.S.S.R. as follows:-

731 four axle Railway Tank cars
486 " " Goods trucks
400 Axelson type oil well pumps
5 tens spare parts for above
40 tens spare parts for locomotives
100 tens spare parts for railway trucks.

New orders

According to the Plan for the 5th "Armistice Year" (Sept. 1948 - Aug. 1949) the ASTRA is to manufacture - on reparations account - for the U.S.S.R. 550 Russian railway waggons (types not specified).

Resumption of Artillery Ammunition production

It is reliably reported that the BRASOV Works which still have intact their modern amounition shop capable of producing shells up to 150 m/m (6 inch) would require six months for tooling up and restarting production.

US. OFFICIALS ONLY

47-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(5) INDUSTRIA METALURGICA AL STATULUI (I.M.S.)

formerly known as:-

UZINELE DE FIER DIN HUNEDOARA (U.F.H.)

These important State-owned works are situated near HUNEDOARA in Transylvania.

Iron Ore Mines

The concern owns about 70% of Roumania's total iron ore reserves. The principal mine is situated at

CHELAR Visible reserves 2,500,000 tons. Principally siderite (38% Fe; 2.5% Mn; 1% S)
Annual production about 110,000 tons.

There are two ore roasting installations of the "Gjers" type installed in 1933 at HUNEDOARA with a capacity of 9,000 tons per month.

Other Iron ore mines owned by the Company:-

VALEA DOBRII (Siderite as above) Reserves 1,000,000 tons.

ALUN (small reserve) Limonite (45% Fe; 2% Mn; 0.5% S)

VALEA FERUIUI (probable reserves 1,000,000 tons) Magnetite (55% Fe; 0.24% Mn; 0.1% S)

POLNI (small) Maematite

SALCIU (small) Limonite

RIZETE. (probable reserves 1,000,000 tons) Siderite

HERCULIAN (small) Limonite

RACOSUL DE JOS (small) Haematite

Iron Smelting Works - HUNEDOARA

3 Blast Furnaces. Cap.80 tons per 24 hours.

1 Blast Furnace " 150 " " " "

The brickwork of Furnace No.1 is dismantled (beginning 1948)

No.2 is to be stopped for overhaul in July 1948.

No.3 is to be restarted (no date given)

No.4 is to be restarted during 1948, but as it is of old design and the refractory material has been exposed to weather for many years, results are not expected to be very satisfactory.

No.5 is too old for smelting purposes and is to serve for ore roasting or as a lime kiln. Alternatively it will be demolished. CONTROL

Approved For Release 2006/04 FOAR 33 00415R002400000 FICIALS ONLY

Approved For Release 2006/04/21 CIA-RPP83-00416R002400100001-2

-48-

STEEL WORKS AND ENGINEERING CONCERNS (contd).

Total theoretical annual capacity is 140,000 tons, but actual output in 1943 amounted only to 42,562 tons.

Steel Works

4 Siemens Partin Furnaces installed by "Gute Hoffnungshütte" in 1941.

Capacity 25 tons por heat.

1 Mixer of 300 tons capacity.

Designed capacity 95,000 tons per annum (i.e.95 m^2 of hearth x 1,000 tons m^2 per year)

Production in 1943 amounted to 41,777 tons ingots; In 1946 it was down to 15,520 tons.

2 Electric Furnaces of which

l of 1 ton charge and 1 of 5 ton charge supplied by Brown Boveri in 1944. Froduction figures not available.

Steel Foundry

Foundry for special and alloy steel (electric) castings. Annual capacity 2,000 tons.

Oxygen Factory

1 Complete installation capable of producing $5,000~\mathrm{m}^3$ oxygen per month.

Rolling Mills

l "Duo" reversible cogging mill 800 x 800 x 900 m/m supplied by SCHLOEMANN.

Designed capacity 100,000 tons per annum of square billets from 65 to 150 m/m and round billets from 60 to 140 m/m diam.

Production in 1942 was 24,423 tons and in 1946 had sunk to 11,512.

Forge

1x250 Kgr. steam hammer

2 x 500 Kgr. steam hammers (installed 1925)

1 x 400 Kgr. pneumatic hammer

 1×650 ton forging press

1 Toggle press.

Output in 1943 amounted only to 266 tons.

Highest output (480 tons) was attained in 1942.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

U.S. OFFICIAL S DALLY

206/06/20: AA-RDR3 00415R002400100001-2

~49**~**

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Machine Shop

No details as to equipment available other than that it contained 67 machine tools of various types installed

Capacity 2,000 tons per annum. Output in 1943

The Works are also capable of manufacturing bridging material and oil reservoirs in their structural shop.

Cast Iron Pipe Shop

2 furnaces of 3 tons

" 1.5 tons

1 ir 0.5 n

Mechanical installation for casting 50-1,000 m/m pipes. Designed capacity 2,400 tons. Actual production in

Iron Foundry

Apart from pipes the foundry has also capacity for the production of 3,000 tons of iron castings. Production

Power Supply

- 2 Turbo-generators of 1,720 KVA supplied by
- 1 Turbo-Generator of 9,375 KVA supplied in 1941 by G.H.H. - A.E.G.
- 5 "TISCHEEIN" Boilers, 6 atm. 150 m2.
- 3 "Babcock & Wilcox" Boilers. 12 Atm. 370 m2
- 3 "Esslingen" Boilers 32 Atm. 325 m2.

Another report states that total generating capacity was 25,000 H.p.

Agricultural Machinery Factory situated at GAVOJDIA

- 2 "Francis" Turbines 400 II.P.
- 3 Hydraulic hammers for agricultural implements

STORY OF THE STREET

- Electric hammers
- 100 ton press.

Annual capacity 1,800 tons (working 3 shifts); output in first six months of 1944 was 514 tons.

Te as 100004721 CIA-RDP83-00415R002400100001-2

Appl SECRE 10.5. OFFICIALS ONLY

-50-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Forest Exploitations

The concern owns forests at the following places, which are being partly exploited:-

POENI) SEVERIN District POIANA RECRITELE) RUNC .

GRADISTEA) HUNEDOARA District

CAUNENI VALCEA District.

Charcoal production: - Up to 1,200 tons per morth.

Refractory Material Factory

Annual capacity for dolomite bricks stated to be 3,000 tons.

Tile Factory

Annual capacity 3 million tiles.

Quarries

Limestone and road stone.

Annual capacity 40,000 cu.m.

Personnel No figures available as to number of men employed.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

SECRET US. OFFICIALS ONLY

STEEL WORKS AND ENGINEERING CONCLRAS

(6) INTREPRINDERILE METALURGICE DUNARENE, S.A.R.

Location: BMAIM. (I.M.D.)

Rolling Mill

2 Rolling mills for production of reinforcing rods, rounds, flats and wire.

Supplied in 1930 by DEMAG (Germany)

Maximum capacity 48,000 tons per annum.

Actual production in 1943 - 12,915 tons.

Wire, Nails, Scrows and Chain Factory

136 machines for wire drawing and chain manufacture (manufactured in Roumania between 1924 and 1933)

19 heading machines
(one automatic of German manufacture; 18 hard operated made by the establishment. Installed 1931)

106 machines for nail manufacture supplied in 1921 by Messrs.MALVEDIE, HAUSER, KAISER.

4 machines for manufacture of barbed wire. (1 supplied by KAISERLING, Germany, 3 manufactured in Roumania) Installed 1925/40.

85 machines for manufacture of rivets, supplied by WEINGARTER, KIRSCHER, MASECAVER. Installed 1930/35

62 machines for manufacture of chains, supplied by MALMEDIE and VAFIOS. Installed 1926/35.

l installation for galvanising wire. Supplied by G.DEWTZ $\hat{\alpha}$ Co. of Vienna in 1930.

l Press for load pipe production Supplied by G.ECKHACK & Co. of Viewa in 1929.

Capacities and Production

Nails and wire: Capacity 16,200 tons per annum Output in 1938 - 7,271 tons " 1943 - 3,927 "

Barbed wire Capacity 3,600 tons per annum.
Output in 1940 - 665 tons
" 1943 - 55 tons

Rivets and screws Capacity. 2,688 tons per annum. Output in 1943 - 758 tons

Chains Capacity: 1920 tons per annum.
Output in 1943 - 820 tons.

Power Supply

Rolling Mill - 1,560 H.P.

Wire nails, serews and chain factory - 1,120 H.P. Number of workmen: 1,000.

Appr SECRE 10.0004/22 CIA-RDP 63-00415R002400100001-2

Approved SECRE 04/21: 614 RDP8 200415 R002400100001-2

-52-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Imports of Raw Material

Billets were imported from Germany.

Requirements for capacity production: 50,400 tons.

Imports in 1938 : 23,042 tons

1939 : 16,966

1940 : 8,340 1

1941: 11,540

1942 : 14,232

1943 : 13,450 "

1944 : 5,427

SECRET C O N T R O L U.S. OFFICIALS ONLY

- 53-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(7) INDUSTRIA FIERULUI S.A.R.

Works situated in Strada Sutasului No. 24, Bucharest Head office: Strada Academici No. 35-37

1 Rolling Mill (one stage for roughing and seven for finishing).

Supplied in 1928 by Thyssen from Germany.

Produces reinforcing rods from 6.5 to 25 m/m diam.

Maximum capacity 15,000 tons per annum.

Actual production:

1938	7,327	tons			į ,
1939	9,918	î			1
1940	4,277	n'	i	7	ŧ
1941,	2,364	îi			-
1942	3,110	11	ı		
1943	5,743	ff			
1944	1,817	11	(ton	month	a)

Formerly Billots were imported (partly from Germany)

1 Sheot rolling mill (three stages, 1450 m/m x 700 m/m) Supplied in 1928 by SCHLEIFENBAUM & STEINITZ, Germany Rolls chiefly lead.

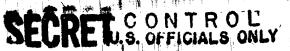
Maximum capacity, 4,000 tons.

Actual production in 1944 - 52 tons.

Power Supply

Steam engino (no details available)

The two rolling mills cannot run simultaneously as power is not sufficient.



Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

SECRET S. OFFICIALS ONLY

-54-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(8) NOUL SOCIETATE A ATELIERELOR "VULCAN"

Fabrica de Masini Vagoano S.A.

Hond Offico: Strada Valcan 40, Bucarost.

Works: DEALUL SPIREI (Suburb of Bucarest)

This concern owns:-

Techanical workshops

Boiler ankers shop

Small Iron and Steel Foundries.

Motallic drums and barrel shop

Mechanised wood working shop

associably shop

Rivet shop.

Production:

Maximum annual production capacities are stated to be:

Boilers (including repairs) 1,800 tons

Oll reservoirs (incl.repairs) 500 "

Transmission shafting 10

Flour Mill installations 200 "

Lifts and hoists 300 "

Steam rollers 900 "

Fridge and motal construction 7,000 "

Iron and stool castings 3,500 "

Columns for oil refineries 800 "

Central heating installations 100 "

Oil drums and barrels 10,000 "

Tanks for tank waggons 300 "

Oil burners and injectors | "Vulcan" type

Poasant carts 1 200 "

Rivets 100 "

Powor Supply

Installed power: 2,180 H.P.

No.of Workmen 2,400; Office staff: 370 Approved For Release 2006/04/21 CIA-RDP83-004151002400100001-2

Approved For Release 2008/04/7 FUM #DF83-00415R002400100001-2

-55-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(9) CONCORDIA S.A.R.

Motallurgical Works, PLOESTI.

Address: Strada Rogina Maria 146, Ploosti

These works are a subsidiary of the CONCORDIA OIL Company in which Belgian Capital ("PETROFINA") participated During the German occupation, the Belgians sold - under duress - their shareholding to the Germans. As a result of this the Russians, who considered these shares to be war booty, now hold 51% of the share capital. This matter is at present stated to be under litigation. Share capital in 1938 of the whole combine comprising:-

- (a) Oil Department
- (b) Electrical Dopartment
- (c) Metallurgical Works
- (d) Mining Dopartment

was just over 1 Milliard Lei.

Invested capital nearly 4.5 Milliard Lei.

The Motallurgical orks are subdivided into:-

Stool Plant Iron Foundry Bronze foundry Brass foundry.

The Stoel Plant has 2 Heroult Electric furnaces, one of 3,000 Kg. the other of 5,000 Kg. capacity. Monthly output 150 tons of steel castings or about 200-300 tons of billets.

The Iron Foundry specialising in high grade castings (cylinders, otc.) has a monthly capacity of 250 tons.

The Bronze Foundry has electric induction furnaces (number not known)

The Brass Foundry has electric induction furnace capable of producing lutons of brass per day and can utilise either scrap or copper and zinc.

A 2,000 ton press is used in transforming the billets into extrusions and tubos, the output being sufficient to satisfy local market requirements.

Forge

In 1938 a forge was in process of erection with an 800 ton press and $2\frac{1}{2}$ ton steam hammer.

a section for the production of high speed tool steels was also contemplated.

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

SECREL O ON TROL

-56-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Products

Oil well material of all sorts including Rotary outfits, steel constructions, e.g. hangars, bridges, pylons, reservoirs, swam rollers, 2 cylinder Diesel engines, railway material, YARROW boilers for Danube Monitors, pontoons for military bridges, industrial boilers up to 175 atm. pressure (Walther system).

Concordia has also capacity for the manufacture of non-ferrous metal products as follows:-

Extruded copper rods - 240 tons per annum.

Copper tubes and hollow extrusions - 300 tons per annum.

Brass rods - 600 tons per annum.

Brass tubes - 60 tons per annum.

No tubes under 20 m/m diam. can be produced.

ARMAMENTS

During the war 37 and 47 m/m h. Tank Guns were manufactured as well as shells and cartridge cases. The annual capabity for artillery cases is stated to be 200,000 of an average calibre of 75 m/m (3 inch) when working three 8-hour shifts.

It has been reliably reported that no armaments of any description were being manufactured at the beginning of 1948.

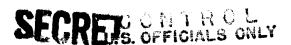
Labour

The Meta Murgical and Engineering Works employed 4,000 hands in 1940. In 1946 this number had been reduced to 1,500 and 200 office staff.

Install d Power: 8,160 H.P.

Surface of Workshops: 50,000 sq.metres

Further information required.



SECRETUS ONTROL

-57-

STREEL WORKS AND ENGINEERING CONCERNS (contd)

(10) UZINELE METALORGICA "LEMAITRE"

(figures refer to 1938)

Address: SPLASUL UNIRET 165-171, Bucarest V.

Capital: 65 million Lai

Invested capital: 113.5 Million Lei.

Chief products: Boilers, reservoirs, bridges and other

structural steelwork, castings, tank cars,

textile machinery.

Repair of locomotives and railway trucks.

Armament manufacture:

During the war, turned out shells of 75 and 105 m/m calibre. Quantity not known.

Capacitys

5,800 tons per annum.

Number of Workmen: 614. Uffice staff: 45.

Covered surface of workshops: 16,370 sq.m.

Installed powers

1,150 H.P.

Further details wanted on capacity of shell shops.

Approved to Release 2006/04/21; CIA-REPRS3-00115R002400100001-2

-58-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(11) E. WOLFF, S.A.R.

(Now name: "UZINA STEAUA ROSIE".)

(All figures refer to 1938)

Address: Strada Dr. ISTRATI, 7, Bucarest - Filaret.

Capital: 30 Million Lei

Invested Capital: 97 Million Lei

Chief products: Oil refinery equipment; cracking columns,

structural steelwork, oil reservoirs, up to 10,000 tons capacity; boilers (high and

low pressure) bridges, oil injectors, winches, transmission shafting.

Power Consumption: 600,000 Kwh.

Capacity: 3,385 tons per annum.

Number of workman: 800; office staff, 45.

The firm has a subsidiary establishment in CONSTANTA at SOSEAUA MANGALIA 50. This was primarily concerned with building oil reservoirs; now inactive.

-59-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(12)FABRICA DE MASINI DUMITRU VOINEA

(New name: "UZINA VASILE ROATA")

Address: Calca Mosilor 25, Bucarest.

Subsidiary at BRASOV - Drumul Zizinului.

The factory at Bucarest produced BRANDT 60 and 81 m/m mortars.

Peacetime production comprised:

In Bucarest: Complete flour mill equipment

Woodworking machines Iron and bronze foundry

Metallic structures, bridges, etc. Repairs of rolling stock including locos.

In Erasov: Muts, bolts, screws, rivets.

Repair of rolling stock, incl. tank waggons.

Timber yard with 2 saw mills

Installed power: 230 H.P.

-30-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(13) INTRIPRINDUMINE EMIL COSTILLISCU S.A. SIVALI

(de. name: dalalle 1.0.FRIII)

Founded in 1880 primarily as a saw mill and timber exploitation enterprise to which was added in 1889 a factory for the production of rivets, nails, screws, bolts and nuts. In 1898 lime kilns with a total output of detens per day were started, the raw material being brought to the factory site by a 4 Km.long acrial repeway.

In 1938 a shell shop was installed, which was equipped chiefly for the manufacture of 100 m/m Si oda shells.

Output Capacity of nuts, bolts, screws, etc. 15,200 tops.

Vapacity of shells unknown.

Installed power: 920 H.P.

Number of Working employed in 1938 - 600; office staff 48

Share capital: In 1938 - 50 million Lei - all hold by the CUSTINESCU family.

Further inf. on Shell shop wanted.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

STEEL WORKS AND ENGINEERING CONCERNS (contd)

(14) VARIOUS OTHER ENGINEERING FIRMS on which further details are required;

Namo of Firm	Location	Remarks
CABLUL ROMANESC S.A.R. (formerly ANGLIA	Plocsti	Founded by British sub- ject. 12 wire rope machines 115 workmen 550 H.P. Cap. 6500 t.p.a.
FABRICILE do LLSETE AND.RIEGER S.A.	Sibiu	Principal products; agricultural and flour
Hew name: "FADNICA INDEPENDENTA"		milling machinery. Cast iron tubes. Railway Rolling Stock ropairs. 600 workmen 100 office staff.
FRATII SCHIEL S.A.R.	Works at	General_engineering
New name: "UZINA STRUNGU	TT _H	works. Iron castings up to 15 tons. Steel castings up to 4 cons. Repairs of locos and railway waggons and trucks.
I.M.S. MARGINEANCA	Vornicu- Margineanu	Produced amunition (State owned).
Now have: "UZINA ILIE PIMFILIE"	26 Klm from Ploesti on the TIRGOVIST road	Could restart manufacture
INDUSTRIA OPTICA ROMANA	Sucarost	Optical instruments including gun sights, telemeters, searchlights.
IMOUETRIA ROMANI MECHYICA SI CHIMICA S.A.	Bucarest	Produces tools, automobile spare parts and components of armament materials
IMDUSTRIA SARMEI S.A. (See also page 68)	Factories at Campia-Turzii	Produces reinforcing rods steel wire, springs, welding, electrodes, insulated wire and cables.
N. C. CITT A	Braila	Reinforcing rods and vire.
M.CAZUL 3.A.	Ploesti	Points, switches and other railway materials. Capacity: 4,000 t.p.a. 380 H.P. 300 workmen 60 different types of machines.
PIROTECHNIA ARMATEI	Cotroceni Suburb of Sucarest	Produced S.A.A. and fuzes also filled and assembled shells. Destroyed by bombardment; now reconditioned and said to be about to restart production.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

-62-

STEEL WORKS AND ENGINEERING CONCERNS (contd)

Name of Firm	Location	Remarks
REGIA METALURGICA BRAILA S.A. (State Owned) amalgamated with SOCIETATEA FRANCO-ROMANA do MATERIAL do DRUM do FIER S.A. New namo: "UZIMA PROGRESU	Works at BRAILITZA JL"	Originally a private concern founded in co- operation with Fronch capital for the manu- facture and repair of railway rolling stock. Subsequently concentrated on arms and tank manufacture.
SCHRAMM, HUTTL & SCHMIDT Now name: "FAPRICA MAGHER	Toplitza U"	Agricultural machines Looms for textile mills. Rolls for rolling mills. Hydro-electric power plantP 3 turbines, totalling 750 H.P. 650 workmen.
UZINELE METALURGICE din COPS., MICA si CUCIR	Works at Cugir	Brenn guns were being manufactured under technical supervision of ZMROJOVKA of BRNO, who were financially interested. Present products not known.
(15) Aleccapt Factories or	n thich furth	or information is required:
I.A.R. (I.M.S.) Now name: "TRACTORUL"	Vorks at DRASOV	Manufactured aircraft and motors to French and Polish licences. Now manufactures agricultural tractors. In August 1948 exhibited prototype of a motorcar which is to be manufactured in sories at a future (unspecified) date.
ICAR	Bucarest	Manufactured light air- craft and parachutes. Now said to be producing household utensils.
INA (INDUSTRIA NATIONALA AERONAUTICA) formorly S.E.T.	Bucarest	Manufactured light air- craft under licence. Now said to be restarting manufacture of fusclages.

-93-

XI. SHIPDUILDING

(a) "SANTIERELE MAVALE GALAT" situated in Str. SALUPEI 23, GALATZ (Soc.pe actiuni de Mavigatie SCVIETC-ROMANO).

Humber of workmen employed (1948) 2523

Installed power

1,360 H.P.

Total surface of yard, completely 337,500 m2 modernised in 1937.

Building and repairing tugs and barges, chiefly for navigation on the Danube.

(b) "S.W"IERUL WAYAL MEPTUN"

Strada Navelor 34, Galatz.

dumber of workmen employed (1948) 120

Installed Power

168 H.P.

- (e) "VIIIORUL" Snipyard at BR.II.
- (d) "ING.E.CERCHEZ" " "
- (c) "I.R.N. " " "
- (f) "DAMUBIUL" n n n
- (g) $\frac{u_{\text{METIMAV}}u}{(1ZZANDA)}$
- (h) "MOMANIA" " " " "
- (i) "DIMAMICA" " TURNU-SEVERIN
- (j) "S.A.R.T.A.T. " " CITENITZA
- (k) The "FRANCO-ROWLINA Shippard at BRAILA in July 1948 completed the construction of sloop LM 104, the fifth launched by this concern. It has an 85 H.P. engine.

Wo details available on Nos. (c) to (k).

-- C.C.--

XII. ELECTRICAL INDUSTRY

(1) UZIMBLE do FIER SI DOMENILLE DIN RESITA

See Page 31, para (r)

(2)PRITANIE, Ducarest

> how name: FALRICA do MOTOARE "ROSA LUXERBURG"

"o dotails available.

(3) THOOK Jan. R. Bucarest

Manufactures all types of accumulators

How name: FABRICA do and batterios.
AGUINIATORI "FROGRESUL" Dotails required.

(.1)STANDARD Ducarost

New name: F.DRICA de

"ffiliated to the TELEFOAME "VESTITORUL" I.T.T. of New York. Manufactures all types of Telephone equipment.

-65-

XIII. NON-FERROUS METAL INDUSTRIES

(a) METROM PRIMA FAURICA METALURGICA ROMANA, BRASOV

The factory which was founded in the late 1920s with a 20% Czech participation, has modern equipment for the manufacture of all kinds of semi-manufactured goods of non-ferrous metals, specially copper, brass, zine and aluminium. In 1946 a non-ferrous metal foundry was under construction,

The factory is equipped to turn out brass and aluminium sheet, strip, round, square and profile bars, extruded and drawn tubes of all shapes and wire from 2 to 6 m/m diam. Zine sheet of 500 x 2,000 m/m in thicknesses from 1 to 5 m/m.

Porsonnel

The factory employs 1,000 workmen (of whom 200 are qualified and 800 unskilled labourers), plus 300 office personnel.

Raw Materials

Refined copper is supplied by "FAROLA". Other raw materials are partly imported from Russia and Czechoslovakia.

Capacity

Maximum designed capacity (all sections working simultaneously in three 8-hour shifts) is as follows:-

Coppor	strip	120	tons	per	annum
11	rods	240	î †	îŧ	îş
fî	tubes ar hollow extrusio			11	11
Drass	strip	300	Σî	13	11
11	rods	1,800	Ħ	ŧi	if
11	tubes	120	13	11	ម៉ែ
	oups for cartridge casus		(1	Ħ	Ħ
Artili cartri cases 75 m/r	idge	720,000) 11	ij	î î

In January 1946 output was reported to amount to 110 tens which was stated to be 55% of present capacity. Of this, 80 tens were coin blanks and 30 tens aluminium pots and pans.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

₩ (j C.w.

XIII. FOR-FERMOUS DETAIN INDUSTRIES (contd)

(b) LAROMET ROLLING AND DRAWING MILLS, INCAREST

New name: "UZIMELE LAMINORUL"

Haxistan designed acqual capacity when working three 8-hour shifts, fully staffed, is:-

Coppor	shoots and strip	240	tons
11	ritin.	240	11
11	tubes and hollow . ortrusions	36 ∪	11
viro		500	11
Flat co	opper fire box plates	COO	11
Formud	Copper fire box plates	150	11
Brass s	shoot and strip	240	11
Drass 1	rods	2,400	11
Prass t	subes	180	ŧĩ
Drass v	viro	60	11
Zine sk	reet	720	11
Brass o	cups for S.A.armo	600	!!

-67-

NON-FERROUS METAL INDUSTRIES (contd)

(c) FAROLA Rofining, rolling and drawing mills, BRASOV

Maximum designed annual capacity, working three 8-hour shifts fully staffed:-

Copper sheets and strip	500	tons
Copper rads	120	17
Coppor wire	300	11.
Flat copper fire box plates	500	î!
prass shoot and strip	120	1t
Brass rods	500	Ħ
Drass wire	60	u."
Zinc sheets	120	tt

NON-FERROUS METAL INDUSTRIES (contd)

(d) INDUSTRIA SARMEI (Wire Industry) CAMPIA TURZII)
Transylvania.

This factory which manufactures non-ferrous material as a by-product only, is capable, when working three 8-hour shifts of producing annually the following:-

Coppor rods 100 tons

Copper wire 500 tons

Prass wire 60 tons

The factory is equipped for the production of insulated wire.

(c) CONCORDIA, Ploesti

For details see Page 55.

(f) SOLEX, BUCAREST

Chief product, anti-friction metals

(g) INDUSTRIA PLUMBULUI, Bucarest

Lead pipe and other products. Roumania produces sufficient lead (chiefly at BAIA MARE) to satisfy all home requirements.

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

XIV. ON THE THE COM

the following eight main plants: (the factories at PUFLA-AADAUFI and GULL-VAIDI, District of HEHEDI TI, coased all activity several years ago).

(1) IJADA (Transylvania)

Figure of which 2 are 2.7/2.7 %. dance 40 m. long, who wetter 150 tons power hours.

groduation 190 tous for 24 hours.

Power Station

2 Turbo-tenerators by MOESEM-DANEM of 2,000 No each 1 Turbo-tenerator by EROVI-HOVERI of 5,000 No

Motal : 9,500 Kw.

Fuel used

Sas field.

(2) "DAM CVITA" at MINI

3 Kilms as follows:-

1"POLYSTES" of 2.3/2.8 m. dans, 56 m. long, prod.130 tons per 20 hours.

- l of 2.5/3 m. diam, 68 m. long, prod.200 tons per 24 hours.
- 1 Kaupp 10 m, long; prod. 350 tons per 36 hours.

Power Station

- 1 Surbo-Generator by Brown Doveri: 1,200 Ma.
- 1 Turbo-Lemerator by Proim Boveri: 1, 50 law.
- 1 Mydro-generator by VOITH 1,200 No

TOTAL 6,050 Nw.

Fuel used

Oil woll gases and fuel oil.

(S) DHASOV

2 Kilns "LEFOL" 48 m. long prod.950 tons yor 24 hours

Power derived from the BRASOV town power station which burns natural methane gas.

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

-70-

CEMENT INDUSTRY (contd)

(4) CERNAVODA

3 Kilms as follows:-

1 "HIAG" 2.5 m. diam. 45 m. long. Prod. 130 tons per 24 hours.

1 % 2.6 m. diam 45 m. long % 160 tons per

(.i.c) 1 "UNAX" 2.7/2.4 m/diam. 82 m. long." 240 tons per 24 hours.

Power Station

6 Diesel engines. Total 2,980 H.P.

Maker's name not known.

Fuel: Oil fuel.

(5) BRAITA

2 Kilns as follows:-

1 "LEPOL" 2.7/3.2 m. diam. 32 m. long. Frod.260 tons per 24 hours.

1 "FELLNER & ZIEGIER" 2.5 m. diam. 60 m. long. Trod.150 tons per 24 hours.

Power Station

5 Diesel engines (maker's name unknown) 3,750 H.P.

Fuol: Vil fuol.

(6) TITANA, Bucharost

2 Kilms as follows:-

1 "TOEYSIUS" 2/2.5 m. diam; 48 m. long. Frod. 100 tons per 24 hours.

1 "LEPOL" 3 m. diam. 30 m. long. Prod. 260 tons per 24 hours.

Power Stations

2 Diesel engines 1,500 H.P. 80 H.P.

2 Steam engines 900 K.P. 300 H.P.

TOTAL 2,780 H.P.

Fuel used: Diosel and fuel oils.

This factory was not working in 1945 owing to lack of raw anterial.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

-71-

CEMENT INDUSTRY (contd)

(7) COMMINIC

2 "MIAG" kilms 2.3 m. diam. 35 m. long. Prod.180 tons per 24 hours.

Power Station

2 Diesel engines (Maker's name not known) 1,050 H.P.

1 Steam ongino

200 H.P.

TOTAL

1,250 H.P.

Fuel: Diesel and Fuel Oils

(8) AZUGA

1 "Polysius" kilm 2/2.7 m. diam. 50 m. long. Prod.100 tons per 24 hours.

Power Station

Fover supplied by "ELECTRICA" Power Station in Carlilla.

This factory stopped production in 1945 as it was not capable of earning a profit owing to the controlled price imposed by the Government.

CAPACITY OF INDUSTRY

Theoretical maximum annual capacity of the eight factories mentioned below is approx. 800,000 tons. The real capacity however is nearer 500,000 tons sub-divided as follows:-

	Tons	
	Theoretical	Actual
TURDA	160,000	90,000
"DAMBOVITA" Floni	1/20,000	80,000
BRASOV	140,000	80,000
CERNAVODA	110,000	76,000
BRATLA	05,000	64,000
"TITAN" Ducarest	80 , 000	60,000
COMMUIC	45,000	30,000
AZUGA	30 , 000	20,000

-1/2:-

CELENT INDUSTRY (cared)

THOUJOTION

this is to be stepped up to 650,000 tons. In 1949 this is to be stepped up to 650,000 tons. Export trade is to be intensified. Shipments to the Argentine were expected to start in July 1948.

Types of Count produced

- (i) Howal Fortland Coment
- (ii) Quid setting coment
- (iii) white Columb
- (iv) Special Coment for oil wells "ULTRA Λ^{tt} and "ULTRA, St."

Internal Consumption

This varied as follows:-

```
1955 - 362,240 tons
1956 - 367,890 "
1957 - 456,360 "
1950 - 500,790 "
1950 - 500,120 "
1951 - 367,050 "
1952 - 356,730 "
1952 - 356,730 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1954 - 503,050 "
1,500 tons exported to Turkey
Decrease caused by lack of
railway waggons.
```

Hormal internal consumption for Roumania's postwar reduced size is estimated to be roughly 300,000 to 550,000 tens. Should the read construction programme be resumed, thus amount will be materially exceeded.

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

-73-

AV. GLASS I DUSTRY

Profession and the lost important factories producing short glass:-

(1) PATAL FARATCA DE STICIA CU GLZ INTAK (VETROUDTAN) INDIAS

5 "FORCAMED" inchines. Amount production of sheet place 2,800,000 sq. m.

Hutbor of vortion: 500

Installed rower: 730 H.T.

(2) F. DEL STEEL ARDELE M. DICKOSAT ARTIN

6 "FOURCHUED" machines. Annual production of shoot glass 2,000,000 sq. s. Production includes hollow-ware and glass wool: 0,000,000 kgs.

Number of working 400

Installed Fower: 430 M.F.

(3) INDUSTRIA ROLLMA, DE GEALFURI. SCAENI

5 "FUJACAULD" and ines

Annual production of shoot glass 1,000,000 sq.m.

(4) TUMBA S.A. TUMBA

Number of workmen; 1,200

Installed power: 526 H.P.

Produces also hollow-ware. Total output of sheet glass and hollow-ware: 10 Million Kgr.

The following nine factories of minor importance canufacture also bottles, besides window glass, but no precise data as available:

- (a) PNIHA FADR. do STICLARIE, GEAMURI SI DECUAL ELECTRICE Friedr. FISCHER. PUTMA
- (b) F.PRICA do STICLARID at TOMESTI (Distr. DEVERIN)
- (c) "COMDOR" Fabrica de STICLARIE at PLOESTI
- (d) "GEAMUL ROLLATISC" at PLOESTI
- (e) "VITREA RO. MAIN" at MARKLU (Distr. DOPOSIMI)
- (f) SOC.ROM.DE STICL.RIE at AZUGA
- (g) STEINTERG-LESSERI-BAIA (Prima Fabrica de Sticlario)
- (h) "STICL....... at FIENI
- (1) FARICA DE STICKRIE DUCURESTI S.A. in Bucarest

-71-

GLASS INDUSTRY (contd)

PRODUCTS

The products of the above factories comprise:-

Bottles of all types

Laboratory glass

Technical glass for accumulators, insulators, etc.

Lamp glass both blown and pressed.

Cut glass for ornamental purposes

Glass wool.

The sheet glass produced is from 2 to 7 m/m in thickness. The quality compares favourably with Czech or Belgian glass. No plate glass is being produced in Roumania.

RAW MATERIALS

The necessary sand for white bottles is obtained from VALENI do PUNTE; that for green bottles is generally found in the vicinity of the factories themselves.

Soda is supplied by the SOLVAY works at UIOARA.

Limestone comes from RACESUL de SUS.

FUEL

The factories mentioned under A.B. and D. use mother gas. Factory C. uses gas from the oil wells in the Prahova region.

CONSUMPTION

Internal consumption of sheet glass before the war was approximately 2,500,000 sq.m. per annum. There thus remain appreciable quantities available for export. In 1940 and 1941 about 1,200,000 sq.m. were exported annually to Turkey, Palestino, Syria and Lybia. Large quantities have recently gone to U.S.S.R. on reparations account.

-75-

XVI. TEXTILE INDUSTRY

There were 640 concerns employing 74,100 persons in the Roumanian textile industry in 1930. Production in 1938 was valued at Lei 14.7 milliard and the value of raw materials consumed was Lei 9.1 milliard. The cotton industry expanded considerably between 1920 and 1938. In the former year there were only 35,600 spindles and in the latter 340,000. In April 1948 there were approximately 800,000 spindles 22 spinning mills and 17,000 looms in operation. The number of wool spindles increased fourfold and 90% of Roumania's vool yarn requirements were covered by her own spinning mills. In 1937 there were 4,200 looms in the wool industry; in the silk and rayon industry 1,900 and an the cotton and linen industries 14,000.

(1) COTTON SPINNING LILLS

The following 18 spinning mills operating approx.290,000 spindles, are the most important:

	NAME OF CORCERN	LOCAT ION	THOUSANDS OF SPINDLES	ORIGIN OF CAPITAL
(a)	INDUSTRIA de DUMINAC S.A.	Bucaront	20	Roumanian
(b)	FILATURA ROMANEASCA de BUMBAC S.M. (FRB)	{1	50	Italian
(c)	DACIA, S.A.	11	12	Ħ
(d)	BUMBACARIA ROLLMELSCA	Jilava	20	French
(o)	DAMBOVITA S.A.	Ducarest	80	Roumanian
(f)	NOUA FILATURA do SUIDAC S.A.	îl	10	11
(g)	FILATURA Ing CASSASSOVIC (New name: FILATURA OLGA LAMEGIC)	I ti	20	tt
(h)	CHIAJNA		3- 5	£\$
(î)	ATLANTIC S.A. No.of Workmon 512 Installed Power 1,116	Galatz	14	
(j)	FUSUL S.A. (dismntled)	īì	5-10	£1
(k)	TEXTILA ROMANEASCA S.A.	Pitosti	10	it
(1)	VICTORIA S.A. (This mill was transfer from JASSY and has men with No.(k)	n Prod Pgod	3 - 5	
(m)	MEVA S.A.	Cisnadio	3.0	Gorman
(n)	ROMITEX S.A.	Timisoara	15-20	Italian
(0)	ATLANTA S.A.	Ŧŧ	5 - 6	Rowminian and Italian
(2)	TWO HIGHDIDT HATTER TO			

(p) INDUSTRIA TEXTILA Arad 37 Roumanian Approved For Rejease 2006/04/21: CIA-RDP83-00415R002400100001-2 1,600 workmen.

-76-

TEXTILE INDUSTRY (contd)

MARE OF CONCERN	LOCATION	THOUSANDS OF SPLIDLES	ORIGIN OF CAPITAL
(q) TES. 3.4.	arad	20	Gorman
(r) IMDUSTRIA ROMADO TESATURI TEPRILATE (I.R.T.I.)	Modias	9	Swiss (also 400 looms)

Most of the above mills spin medium and coarse yarns (from 6-12 and 14-32); Fine yarns - from 50 upwards - can be produced only by the FILMTURA ROUMNEASCA (No.b. above). There are some other mills of minor importance, about which no data is available.

Raw cotton (rowing was started in Roumania only comparatively recently (1930) and production in 1945 was estimated to vary between 2 and 3 million Egr.(unginned). Great efforts are being ande to stimulate cotton growing in spite of the climate which is not entirely suitable. Macedonian type cotton is the most successful. In 1948 about 47,000 hectares were under cotton cultivation.

of cotton to Roumania. Alternative sources are Turkey and Egypt. Defore the war Roumania imported cotton in the following qualities:-

ZIIGORII 70%

AGILAOUMI 20%

SAKELARIDIS 10%

Equipment

The majority of spinning machines are of German manufacture. A small number are of Italian origin. "ATLANTIC" of Galatz has swiss machines (Rüti)

Capacity

Taking into account approx.290,000 spindles, the capacity of the mills working 8 hour shifts would amount to about 10 million kgr. This represents only about 50% of the yarn required to keep the cotton weaving mills fully employed on an 8 hour shift.

(2) COTTON WEAVING MILLS

In 1945 there were about 15,000 cotton looms in Roumania. Of these only about 8-0,000 are installed in the more important well-equipped mills, capable of intensive production.

The mean output of light material (weighing about 150 gr. per meter) is estimated to be about 30 m. per loom per 8 hour shift.

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2

-77-

TEXTILE INDUSTRY (contd)

The principal weaving mills are:-

	Name of Concorn	Location	No. of Looms
(1)	ANTON MURADIAN	Bucarest	122
(2)	"ATLANTICA"	Galatz	233
(3)	"FLANDRIA"	?	114
(4)	FRATII DRAMESCU	?	169
(5)	"FUSUL"	Galatz	237
(6)	"IMPRIMENT"	Bucarest	100
(7)	INDUSTRIA DE DUMBAC S.A.	Bucarest	1,173 (See (a) Page 75)
(8)	IND.ROM.do TESTURI IMPRIMATE	?	266
(9)	INDUSTRIA TEXTILA	Lugoj	624 (600 workmon)
(10)	INDUSTRI, TEXTIL, ARADAN.	urad	1,565 (See (p) Page 75)
(11)	A. IZVORANU	Bacau	126
(12)	"JANDERA"	Orsova	196
(13)	JEAN G.MARCU	Galatz	100
(14)	"LUPENI"	Sucarest	132
(15)	"MIOARA"	Bucarost	126
(16)	MOARA SI TESATORIA	Lugoj	150
(17)	PRIM, IND TEXTIL. TIMISOREANA	Timisoara	104
(18)	"ROMITEX"	Timisoara	205
(19)	SOCIETATE PENTRU I DUSTRIA TEXTILA	Buhus i	423
(20)	"SOCIR"	Bucarest	144
(21)	STAN RIZESCU New name: TESATORIA IVANUS COMSTANTIM)	Branesti	800 (840 H.P. 2,000 workmen)
(22)	nLEBV.n	Arad	428 (Sec (q)Page 76)
(23)	TESATORIA "DIMPOVITA"	Bucarest	425 (See (e) Page 75
(24)	TESATORIA ROMANA	Pıtesti	517
(25)	TESATORIA ROMANEASCA	Jas i	744 560 H.P. 840
,	Approved For Release 2006/04/21 : CIA-l	RDP83-00415R0024	00100001-00 nerien)

TEXTILE INDUSTRY (contd)

N	ame of Concern	Location	No. of Looms
(86)	TUSATORIA SI VOPSITORIA GALATEANA	Ga la tz	102
(27)	TESATORIA "TELEORMAN"	Rosi orii de	Vede 161
(28)	TEXTILA "DELEA VECHE"	Bucarest	126
(29)	TEXTIL: FRINCO-ROW.NA	Bucarost	'200 (Homp)
(30)	TEXTILA ROMANEASCA	Sucarest	400 (300 Workmen) (Sec (k) Page 75)
(31)	"VICTORIA" .	Jasi	116
(32)	WILHELM LOW	?	135

...part from the above, there are another 118 mills with fewer than 100 looms each.

(3) SEWING THREAD MANUFACTURERS

	Name of Concern	Location	Remarks
(a)	BOSTONIAN SEVING THREAD FACTORY	Bucarest	•
(b)	IMDUSTRIA COCIRIAI	Arad	Italian ^C apital (Fused with (d) in 1940
(c)	PROGRESS SWEING THREAD FACTORY	Tinisoara	Doublers and manu- facturers of multi- coloured yarns. Doubling spindles: 1,500 Yarns doubled sewing thread and dyed embroidery yarns. Output of Roumanian Industry:- 1947 - 111 tons sewing thread.
(d)	ROM.NOFIR	Talmaciu	Land Subsidiary of Hossrs.J.& P.COLTES LTD. of Glasgow. 300 H.P. 300 workmen

(4) WOOL SPINNING AND WEAVING MILLS

The Roumanian Wool Industry has approximately 2,687 looms and approx. 140,096 spindles. (Note: These figures, taken from a 1945 Roumanian document, differ materially from those contained in the 1943 edition of the M.E.W.Handbook)

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2



-79-

TEXTILE INDUSTRY (contd)

The seven most important Wool Spinning and Weaving concerns are:-

	Name of Mill	Locat ion	No.of Looms	No.of Spindl	Remarks
(a)	"DOROD.,NTUL"	Ploesti	150	3,640	Affiliated to No. (f)
(b)	GRUPA POSTAVARIILOR	Cîsnadio	129	6,704	
(c)	INDUSTRIA LAMEI	Timisoara	247	16,640	200 Workmen
(d)	A. ISVORANU	Bacau	251	9,200	
(0)	NOUL FABRICA DE POSTAV	Azuga	150	4,400	"ffiliated to No.(f)
(f)	SOC.PENTRU THOUSTRIA. TEXTILA	Buhusi	976	20,851	7,980 H.P.of which 200 H.P. hydraulic 4,500 workmen
(g)	Wilhelm SCHERG & CO. Now name: PARTIZANUI ROSU"	Brasov; Rasnova Darste	320	9,710	1,600 workmon

There are about 30 other mills of minor importance.

The following are the most important concerns which only spin wool:-

(a)	COMP.GEN.INDUSTRIA TEXTIIA		10,100
(b)	CORONA S.A.R.		6,400. 100 workers
(c)	FRATII I. & GH. PORNICHESCU		1,534
(d)	FRITZ HANN		800
(0)	TAUTE & GO.		2,000
(£)	TEXTIL. PLOESTI	Plocati	12,320

Raw Matorial

Roumania's wool production was as follows:-

1939	4.530 000 Kan
1940	4,530,000 Kgr. 3,142,000 H
1941	1,430,000 "
1942	5,842,000 "
1943	6,556,000
1944	3,738.000 "

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

TEXTILE INDUSTRY (contd)

(5) VIGOGNE (VICULA WOOL) SPINNERS

This article, which is important for the peasant population is produced from low-grade cotton and waste.

There are over 22,000 vigogne spindles in Roumania having a theoretical annual capacity of 2.5 to 3 Million Kgr.

The principal spinners are:-

	Namo of firm	Lo cat i on	No. of spindles
(a)	DACAUL	Ba c au	2,101
(b)	A. CERKEZ	Bucarest	880
(c)	FILCAR	11	937
(a)	FILCOM	īŧ	1,680
(e)	IMD.TEXT.ARaDaNA	Arad	1,384 (See (p) Page 75)
(f)	IRTI	Medias	1,920 (See (r) Page 76)
(g)	MUNCA TEXTIL.	Bucarest	816
(h)	SOC.P.IMDUSTRIA TEXTIA		2,000 (Sec(19) Page 77)
(i)	SUC.ROM.P.INDUSTRIA	. 11	1,900
(j)	DE BUMBAC I.STURM	Cisnadio	800
(k)	TEBA.	Arad	7,338 (See No.(q) Page 76)
(1)	K.ZILL	Cisnadie	636
	T OTAL		22,721

(6) ARTIFICIAL FIBRES

Artificial silk fibre (Viscose yarn) is produced by only two enterprises:-

..PRETUR. at Popesti-Leordeni

VISCOSA ROMANEASCA at Lupeni

Capacity

APRETURA's annual capacity is 1,100 tons

LUPENI's " " 960 " plus 180 tons of artificial cotton fibre.

-81-

TEXTILE INDUSTRY (contd)

Hoto: Another source gives the combined annual output of the two concerns in 1843 as 4,800 tens rayon and 2,100 tens of staple fibre)

Raw mterials

All raw materials (with the exception of sulphur) are produced in the country. About 75, tons of sulphur are required annually.

Production

Production in 1945 is reported to be down to 25% of normal output.

(7) SILK WEAVING

There are 90 mills which inter ulia also weave intural and artificial silk. Over 3,000 looms are in use for this purpose. Of these 218 produce ribbons only.

Artificial silk products predominate.

In 1941 over 7,000 workers were engaged in this trade.



-82~

XVII. PULP AND PAPER INDUSTRIES

The capacity of the Roumanian paper industry in 1940 was 105,150 tons. The paper cartel which then controlled nearly 92 per cent of the production, sold 59,090 tons valued at Lei 1,201 million for domestic consumption. Capacity of the paper board industry was 15,800 tons and capacity of the cellulose industry 51,000 tons. Domestic consumption of paper board was about 12,000 tons and of cellulose 37,000 tons.

(1) CELLULOSE PULF

The three principal pulp producers in Roumania are:-

(i) FASRICA DE CELULOZA ZARNESTI S.A. at ZARNESTI (near bragov)

Annual production: 20,000 tons sulphite collulose Exceptionally in 1940 over 28,000 tons were produced.

Is free to sell its produce to any paper mills. Principal clients: Paper mills at PETRESTI, at TELEAJEN and at ZARNESTI. 2,600 H.P. 850 workmen.

(ii) FIRRICA DE CELULOJA din PIATRA-MEANT (Moldavia)

Belongs to the BUSTENI Paper Mill. 3,762 H.P.

Froduces pulp by the sulphite and sulphate process

Cutput 15 to 10,000 tons per annum. Supplies pulp to the BOSTENI and the PLATRA-WEART paper mills. Production was stopped in 1944 and part of the machines moved to BUSTENI owing to the Russian advance. It was intended to recreet them in PLATRA-NEAMT after cessation of hostilities, but confirmation whether this has been done is so far lacking.

(iii) CELLULOSE SECTION OF THE LETEA PAPER MILL IN EACAU

Froduces wet pulp by the sulphite process only for the adjacent paper mill. Output 9 - 11,000 tons per annum.

Production: Of Cellulose and cardboard (in tons):

23,370
21,447
25,396
27,658
28,428
9,339
14,064
13,068
11,219

Bleached

Unbloachod

Total

-83-

PULP AND PAPER INDUSTRIES (contd)

Export of Colluloso (tons)

1936 1937 1938 1939 1940 1941 1942	6,539 4,594 5,290 9,520 3,113 1,399 212 40	2,574 9,163 2,434 7,028 1,229 6,529 4,544 14,064 2,800 5,913 945 2,344 - 212 630 720
(2) PARER MANUFACTURERS		
Сопра пу	Loca tâ on	Capacity and Production
(a) ARDEAL S.A.	Nasaud	y man or an antique and
(b) "BUSTENI"FAERICA DE HARTIE	Fratoni	6 ma chines:- 1 - 360 cm 2 - 280 cm 2 - 210 cm 1 - 130 cm
		2 paper board machines. Hydro-electric 1,500 H.P. Steam turbines 12,000 H.P. In July 1943 it was reported that a new machine was being erected, the output of which it is claimed, will exceed the total output of all existing machines in Koumania.
(c) "CAMPULUEGUL" FABRICA DE HARTIE	Campulung	2 Fourdrinier machines 160 cm and 220 cm Cellulose mill
(d) CARTONUL ROMANESC S.A.R.	Campulung	Output 1,400 tons cardboard p.a.
(e) COPONY (Martin)	Tohanul-Vec Tarlau, Zarnesti	hi <u>5 machines:-</u> 1 - 145 cm 1 - 149 cm 1 - 165 cm
(f) FARRIGA DE HARTIE PETRESTI S.A.	Petrestî jud Alba	2 - 173 cm 2 machines.

Approved For Release 2006/04/21: CIA-RDP83-00495R0024001000001:2 300 workmen.

PHILP AND PAPER INDUSTRIES (contd)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	Company	Tocation	Capacity and Pro-		
(ਫ਼)	INTEL FARRICA DE HARTIE S.A.	Zarmesti jud Drasov	3 mach mes:- 1 - 1.70 m. 1 - 2.10 m. 1 - 2.50 m. 0:tput 1,500 bons p.a.		
(h)	LETEA PRIMA S.A. PHMTRU MADRICAREA DE MARTIE	Ea ca u	7 machines: 1 - 104 cm. 1 - 173 cm. 5,000 H.P. 1 - 204 cm. 1 - 100 cm. 2 - 200 cm. Also manufactures Bank		
			note paper for Mational Bank.		
(1)	"PIATRA-NEART" S.A.R. FADRECA DI HARTIE SI MUCAVA	Piatra- I Neamt	4 machines:- 1 paper - 240 cms. 3 cardboard Output 8,500 tons p.a.		
(j)	PRIMA FARRICA DE HARTIE	Susenii Bargaului	2 machines. Output 5,000 to a paper p.a.		
(x)	SOCIETATEA PHOTRI FAERICATIA SI COMERTUL DE HARTI	jud	Output 1,320 tons cardboard 7 paperboard machines. 160 workmen.		
(1)	WARGA	Cluj	2 board machines		

-85-

TIMBER INDUSTRY XVIII.

There were no less than 478 saw mills in Roumania in 1939, employing nearly 40,000 workers. A list giving the names and addresses of 454 of these is available.

The most important concerns are:-

	Company Loc	eat ion	Remarks
(a)	ARDELEANU S.A. INDUSTRIA LEMNULUI	Sucarest	
(b)	CARPATINA	Slatina .	Box factory, parquet factory
(c)	FORESTA ROMANA S.A.	Bucarest	
(a)	INDUSTRIA LEMNULUI BICSAD	Bicsad, jud. Satu Mare	
(o)	"MOLDOVA" INDUSTRIA LEMNULUI	Piatra→Weamt	
(f)	MUNDUS SI BORLOVA ARMENIS Industrie de Lemn	Caransebes	
(g)	RESITA S.A.R.	Valiug) Zavoi)	Soe page 32.
(h) romania forestiera	-	8 saw mills. 160 workmen.
00 10 00	mpanies were grouped cated in the largest untry. They bear th strict.	in 28 State T wood exploita e name of the	respective town or
((The forme Casa Autonoma a Padu Derete until its abo	- 1 1 Am - 4 # 1 # 11 1 1 1	· Administration - CAPS · will continue to orporation in the

operate until its abolition and incorporation in the

above State Timber Enterprise.

XIX. CHEMICAL INDUSTRY

In 1940 there were more than 300 chemical concerns employing 18,000 persons. Most of the firms were small and larger businesses were exceptional. The most important firms are those producing heavy chemicals and rubber goods.

Production of pharmaceutical products, cosmetics, paints and dyes, soap and candles, was small and in the hards of small concerns.

(1' Heavy Chamboals and Pertilisers.

In 1938 there were more than 60 firms, of which two-thirds were small, producing acids and acetylene. Larger firms producing heavy chemicals and fertilisors were as follows:-

fer tilisors were as follows:-				
	Company	Location Ca	apacity and Production	
(a)	AEROGEN S.A.	Ploesti	Acids	
(b)	AZOT,S.A.R.	Transy lvania	Artificial fertilisers. No details available.	
(c)	MARASESTI S.A. ROMANA PENTRU INDUSTRIA CHIMICA	Brasov	Sulphuric acid; hydro- chloric acid; iron sulphate. Employees - 100.	
		Valea Calugareasca	Superphosphates; sul- phuric acid; magnesium; copper and iron sulphate.	
		Marasesti	Superphosphates; Bone meal. Capital of the company: Lei 100 million. Employees - 400.	
(d)	NII' RAMONIA	Fagaras	Sec under Explosives. Pago 88	
(0)	FENTRU INGRASAMINI SI PRODUSE CHIMICE	!E Tarnavonî an	d factory. Capacity	
(f)	PHOENIX FABRICA DE ACID SULFURIC SI PRODUSE CHIMICI S.A. New name: FABRICA		Sulphuric acid; hydro chloric acid; copper sulphate; aluminium sulphate; zinc white. Employees - 1,000.	
	Approved For Release 2000	6/04/241 <u>1CIA-</u> RDR83 (Satu Mare)	J 0041580024001000001.2 tes) Employees - 70.	
		\-auaau	,	

-87-

CHEMICAL INDUSTRY (contd)

		•
Company	Location	Capacity and Production
(g) S.A.a.USINELOR SOL DIN ROMANIA	VAY Oona Murosului	Ammonia soda; crystal soda, vaterglass, caustic soda, calcium carbonate
New namo: FABRICA UIOARA	Turda	Calcium chloride; chlorine; sulphuric acid bicarbonate of soda.
,		Capacity of both factories Ammonia soda 45,000 tons Crystal soda 20,000 " Waterglass 4,300 " Calcium chlorine 1,800 " Sulphuric 2,500 "
		Employees 1,100
(h) STEAUA ROMANA	Ploestî	Sulphuric acid plant as a moxo to Petroleum Refinery
(1) TIMIS, INDUSTRIA CHIMICA S.A.	Timisoara	Sulphuric acid; copper sulphate; minor pigments
2) WOOD DISTILLATION		•
(a) DARMANESTI DISTIL DE LEMN	LARIA Darmanosti (Bacau District)	Charcoal; methanol; calcium acetate
	DIS UTICO)	Capital - Lei 6.5 million employees - 70.
(b) MARGINA-RESITA DISTILLAREA DE LEM	Margina N	60,000 tons charcal; methanol. 1,000 tons
UNITE S.A.ROMANA	Resīta	acetone. Methylacetate; calcium acetate
	Valea Minisului	300 tons formaldehyde Timber consumption 200,000 cubic metres p.a.
•		Employees - 450.
2) DITIMO 1350 DITE		

(3) PAINTS AND DYES

Production in 1940 was in the hands of 60 firms mostly small with a capital ranging from Lei 1 to Lei 3 Million.

	Company	Location	Capacity and Production
(a)	COLORM FABRICA DE PRODUSE CHIMICE S.A.	Codlea (Nr. Brasov) Bucarest	Aniline dyes and kindred products for textile, leather and paper industries. Capital Lei M million. Employees

Approved For Release 2006/04/21 : CIA-RDP83-00405R002400100001-2

-88-

CHEMICAL INDUSTRY (contd)

Locat ion Camcity and Production Company (b) COROANA FABRICA DE pucarest All types of dyes and LACURI VOPSELE SE paints. 80 workers PRODUSE CHIMICE (c) FABRICA UNITA DE Timisoara Paints, dyos and LACURE SI VOPSELE S.A. vegetable oils. Capital Lei 8 million. Paints, dyos, disinfectants. Capital Loi 6 (d) POLYOHROW, FABRICA DE Arad VOPSELE LACURI SI TRODUSE CHIMICE S.A. million. Employees 70.

(c) SCHMOLLPASTA S.A. Brasov Leather dressings and boot polish. Capital Lei 14 million. Employees 70.

(4) EXPLOSIVES

Explosive production was almost exclusively in the hards of 2 large concerns:-

PRIMA SOCIETATE Fagaras Dynamite and all types of explosives; sulphuric acid Output 1937:Explosives - 982 tons Capital Lei 110 million Employees: 270.

NITRAMONIA S.A.ROMAN. Fagaras Nitric acid; ammonium nitrate; sodium nitrate and other raw materials for explosives. Capital Loi 70 million.

These two companies (now nationalised) are to be amalgamated in September 1948 under the title: "HITRAMONIA EXPLOSIVI UZINENE CHIMICE UNITE din FAGARAS"

STATE OWNED POWDER Dudesti Mitro-cellulose powders near for military use.

Bucarest

(5) SOAP AND CANDLES

There were about 40 firms producing soap and candles in 1940 but only a few employed more than 20 workers. By far the biggest was Fabrica Stella S.A.

FABRICA STELLA S.A. Bucarest Washing and medicinal soaps. Eau de Cologne and other perfumes. Glycerine . Capital Lei 25 million Employees 150

UNILEVERS have a financial interest in this

firm.

-89-

CHEMICAL INDUSTRY (contd)

<u>C</u>	ompany	Location	Cameity and Production	
(6) PIL	RMACEUTICAL PRO	DUCTS		
(a)	LABORATORUL FARMACEUTIC "LUTETIA" S.A.	Bucarest R.	1937 capital Lei 12 millio	n
(ъ)) MARGINA R ESIT A	S.A.R. Timisoara		
(c)	ODOL, S.A.R.	Bucarest	<i>'</i>	
(d.)	PRODUSELE	îi	1937 capîtal Lei 💈 mîllion	
(0)	Dr. Wander S.A.	tt ·	Diatetic and pharmaceutical products. Capital 1933 - Lei 4 million.	1

Approved For Release 2006/04/21: CIA-RDP83-00415R002400100001-2



-90-

XX. LEATHER INDUSTRY

There were 158 concerns in the Leather industry in 1938, employing 13,366 workers.

Leather production was as follows:-

Tanned Leather 1939 10,500 tons

1940 9,200

Raw Hides 1940 19,868 tons

The most important factories are:-Name of Concern Location a) GRIGORE ALEXANDRESCU 560 workmen Bucarest (GRALEX) 750 I.P. Capacity: 220,000 pairs military and 250,000 pairs civilian boots p.a. KARRES, S.A. Modias 800 workmen 680 H.P. All types of leather MOCIORNITA S.A.R. 1,000 workmen Bucarest 1,000 H.P. All types of leather. Doots and shoes for civilian and military uso. PRIMA FABRICA de Tomisoara No details INCALTAMINTE din Cluj BANAT comprising "TURUL" Comp. and

o) TALPA S.A.R.

"DERMATA"

Bucarest and 1000 workmen Capacity 12,

1000 workmen Capacity 12,500 tons p.a.

or Release 2006/04/21 : CIA-RDP83-00415R002400100001-2

-91a

XXI. RUBBER INDUSTRY

The Rubber industry started only in 1921. The most important factories are:-

(a) BANLOC, S.A.R.

Situated at FLORESTI (Distr. PRAHOVA) Workshops surface 7,000 m2. Capacity: 200 tyres per day. Number of inner tubes not known. The GOODRICH Company of AKRON, Ohio originally had an interest in this Company, but in 1942 the Company signed an agreement with the CONTINENTAL Co. of HANNOVER for technical assistance.

(b) FABRICA DE CAUCIUC BRASOV, S.A.

Strada Mihai VITEAZUL 144, Brasov.

Capacity: About 20 tyres per day. Main product rubber hoses and technical material. 300 workmen.

CAUCIUCUL QUADRAT S.A. Bucha rest.

Manufactures rubber shoes, galoshes.

Capacity: 200,000 pairs per annum. Produces new bicycle tyres.

Number of workmen: 350.

(d) UZINELE CHIMACE ROMANE S.A. Bucharest

> Manufactures rubber shoes. Number of workmen: 1,200.

Medium sized factories

(a) (ъ) INDUSTRIA CAUCIUCULUI S.A. Bucha rost

MIRA S.A.

- (c) SUPERTURA S.A.
- (d) UZINELE TEONIT S.A.

(e) VILCAN S.A.

Small factories

(a) ARDA

(b) AMERICALIGUM

I.NICOLAU (c)

- (d) OPINCA de CAUCIUC (Manufactures peasant rubber footwear)
- (e) ORECA
- (f) RANGUM

Details are required on the factories listed under paras 2 and 3.

Capacity of Industry

This was calculated before the war to be about 4,500 tons. In September 1948 the Roumanian Government affirmed that whereas before the war 50% of Roumania's rubber consumption was covered by home production, the 1948 programme provided for this to be stepped up to 75%.

RawApproved For Release 200004/21: CIA-RDP83-00415R002400100001-2 imported. -924

XXII. MATCHES

at

"Chibritualine" BOC.ROM.

This State Match Monopoly was leased in 1929 to the SVENSKA TANDSTICKS AKTIEBOLAGET (Swedish Match Company).

The two principal factories are situated

BUCAREST (Filaret suburb) 200 workmen 500 H.P. TIMISOARA (Banat) 260 H.P.

both were bombed during the war and rebuilt.

Capacity: 400 million boxos per annum.

Internal consumption; about 300 million boxes.

Raw Materials Of the 33 components required in the match industry, Roumania has to import 10.

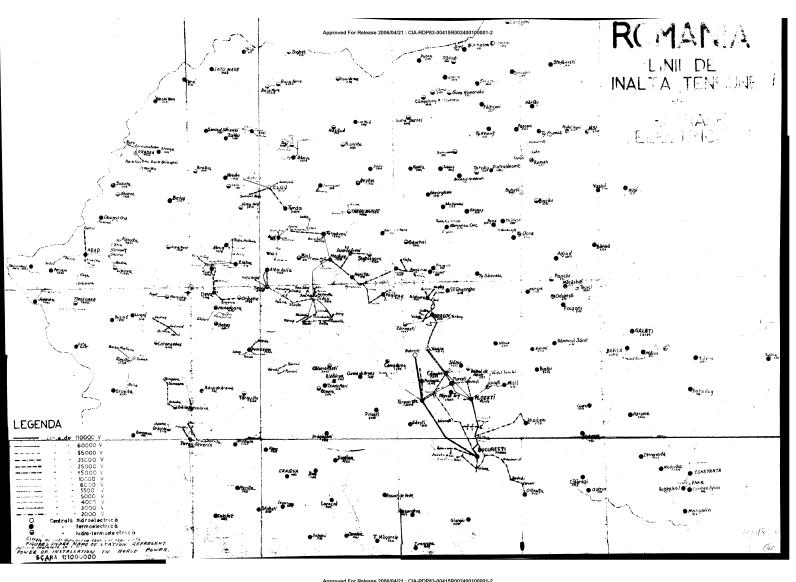
Mormally the factories have stocks of raw materials sufficient for 10 months! output. The FILARET works require daily 50 tons of wood, TIMISOARA, 30 tons.

Annual requirements: 130 tous Potassium chlorate

12 tons red phosphorus

10 tons Antimony sulphide

also pulverised sulphur, zinc oxide, potassium bichromate, red îron oxide, manganese dioxide, gum arabic, gum tragacanth (quantities not known).



-93-

XXIII. SUGAR I DUSTRY

Before the war Roumana had 15 sagar factories. Five of these were lost due to territorial changes. Of the remaining ten, one at Tg. MURES was badly damaged ouring the war; two (ITCANI and RIPICENI) were descantled and sent to Russia on reparations account. The remaining seven are situated at:-

	apacity in 1045 in tons of beet er 24 hours	Installed Power
ARAD (Transylvania)	700	1,856 H.P.
BOD (near EMASOV)	2,200	1,880 A.P.
CHITILA (near Budarest	.) 700	1,440 H.P.
CIURGIU (on the Danube) 1,650	6,677 H.P.
ROMAN (Moldavia)	2,200	6,290 H.F.
SASCUT (Moldavin)	800	1,003 H.P.
TIMISOARA (Banat)	2,700	350. H.b.

An eighth factory is under construction at LIVEZI. The buildings were completed in 1945, but it is not known whether the machinery ordered from 3k ODA has been delivered. It is designed to handle 2,500 tens of beet per 24 hours.

Then the Tg. MURES factory is rebuilt it will be capable of handling 1,400 tons of beet per 24 hours.

The average working period being 100 days per annum, it follows that the capacity of these factories is about 900,000 tons of beet or 125,000 tons of sugar.

Approved For Release 2006/04/21 : CIA-RDP83-00415R002400100001-2



-94-

XXIV. ELECTRICITY

Electrification progressed slowly in Roumania in the interwar period, rising from an installed capacity of 307,000 kW in 1930 to 591,000 kW in 1942. Plans have recently been announced for the construction of new power plants. One of these projects consists of a 16,000 kW hydro-electric plant to be erected on the JALOHITAL River near Bucarest.

Roumania and Bulgaria have signed an agreement for the supply of electricity to border areas in Bulgaria. For this purpose a special power line from Bucarest via GIURGIU to RUSSE is under construction. The cable to be laid across the Danube has been ordered in England.

Nine State Electricity Companies are to be formed (one for Bucarest and eight in various provincial centres). These companies are to take over the 83 power stations which became the property of the State when they were nationalised in June 1948. An Industrial Centre of Electric Energy has also been created.

The following table shows the total installed capacity of Roumanian plants in 1942.

Electricity: Installed Capacity, 1942.

(000 KH)

Total Installed Capacity	Capacity of Plants for general use	Capacity of Industrial Plants	Percentage of population served with electricity.
591	291	300	25.1

Attached is a map showing total installed power in all public and private electric generating plants throughout the country.

Detailed breakdown figures are required giving the list of individual power stations in each locality.



-07-

IN / WARRS GIVER TO PACTURIES AFTER MATIONALISATION (contd) How name Old Hame Mon-Forrous Lutals Industry Chlille La Inonth LAROXET, Sucarest (Page 56) Electrical Industry PA AGUA do ACUMULATORI TUDOR S.A.R. Bucarest (Page 64) TROGRESUL "BLRICA DE HOTOLRE "ROSA IRITANIA, Bucarest 64)LUNCE COURCH PARECA DI TERREPOATE SMAMDARD, Bucarest 64) " TUGA ITORULA Che doal Industry PADRICA UIOARA SULVAY at Ocha (Page 87) Muresului MARICA JOSZA BELA PROENIX, Baia Mare Textile Industry PILATURA "OLGA BANCIO" ING. CASSASOVICI, (Page 75) Bucarest TESATORIA "IV.AUS CONSTANTIN" STAN REZESCU. Branesti " FADRIČA de IN SI CAMEPA FRATII RIZESCU, Branesti TRAICICA FADRICA de IN SI CANERA. TRATII RIZESCU, Duzau DUZZUL

MILHELM SCHERG, Brasov

(Page 79)

FAURICA "PARTIZAUGE ROSU"